Hira 2 ARM POS Mini, Midi, Maxi, standard display

Operator's Manual

Rev. 2.03 EN

HIRA 2 ARM POS

Operator's Manual

CE

Alberici

Progettazione e produzione di sistemi di pagamento e accessori per macchine Gaming, Vending e Car-Wash Design and manufacture of payment systems and accessories for the Industries of Gaming, Vending and CarWash

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NOTICE

This manual has been drafted with the utmost care. Nevertheless, it is not possible to always guarantee the absolute correspondence of the descriptions contained therein with the actual characteristics of the product.
Alberici S.p.A. declines any and all responsibility towards the User with reference to damages, losses, or claims of third parties, resulting from the use of the product or caused by incorrect interpretations of this manual.
Alberici S.p.A. reserves the right to modify, without prior notice and in any way, any part of this manual and the technical specifications of this product, as part of the continuous pursuit of improvement of its products.

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STORICO REVISIONI			
Revisione n°	**Data**	**Modifica**	**Note**
Creazione 1.00	30.12.14	Creazione	FW v. 1.14 (scheda CMS Full)
Rev. 1.01	18.02.15	Funzioni abilitazione/disabilitazione e erogazione via GSM.	FW v. 1.16
Rev. 1.02	10.03.15	Aumentato timeout visualizzazione valore svuotato. Inserito 1' Timeout di uscita in menu svuotamento	FW v. 1.18
Rev. 1.03	27.06.15	Abbassato timeout cancellazione automatica credito residuo	FW v. 1.19
Rev. 1.04	29.04.16	Inserito lettore ACS	FW v. 1.23
Rev. 2.00	07.03.19	Uniformato manuale per i 3 modelli Mini, Midi, Maxi	FW v. 1.26
Rev. 2.01	04.06.20	Integrazione VPOS Touch Nayax	FW v. 1.38.04NL - ARM v. A1.03
Rev. 2.02	16.12.22	Nuovo cabinet v. 3 e Modulo di alimentazione integrato MP1	FW v. A2.11
Rev. 2.03	03.07.23	Compatibilità con Nayax v. 2.4.0.4 e retrocompatibilità con v. 2.0.1.9. Eliminato doppio passaggio con carta di credito da v. Nayax 4.0.23.4. Aggiunti: 1) Refill Manuale + Auto; 2) Inversione pulsanti	FW v. A2.22

Dear Customer,

we would like to thank you and congratulate for your choice. We trust that you will appreciate the quality and performance of the HIRA TWO automatic Change Machine.
This machine operates by cctalk protocol, the well-established serial communication mode that provides security and precision.

Please read carefully this handbook, to obtain the most from your machine.

1. Package content

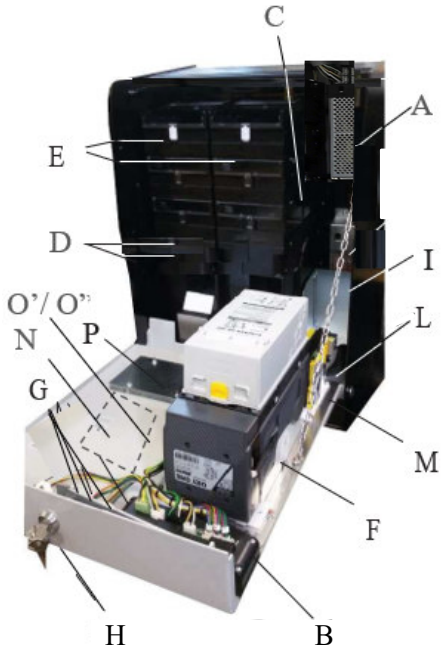
The package contains:

1. the Alberici HIRA 2 / Hira 2 Maxi Change machine
2. 1 pair of keys
3. the power cable (see inside of money box)
4. the instruction manual (this manual)

This product has been packed with the utmost care. In the case that you receive it damaged or incomplete, please notify immediately your findings to the Carrier.

2. Components description

POS.	*COD.*	*DESCRIZIONE*
A	AE-0806 *or* A-PW0002	Power supply box RD-125 *or* MP1 integrated Power Module, with Hub pcb
B	SH-5A21 *or (for POS):* SH-5L21	1 x ChangeOne CMS ARM pcb, 2x16 display *or else, if preset for POS:* 1 x ChangeOne CMS ARM Full pcb, 2x16 dspl.
C	AA-0177	Hub pcb for Peripheral units
D	K-02C-020110 (Mini), or K-02C-020078 (Maxi) or K-02C-020070 (Midi)	2 x HopperOne S11 ccTalk STD without sliding base and w/out optics (includes relevant capacity extension E)
E	AA-0309 AA-0315 AA-0333	SECTOR 100 capacity extension (HIRA 2 Mini) SECTOR 300 capacity extension (HIRA 2 Midi) SECTOR 100 capacity extension (HIRA 2 Maxi)
F	LB-LU01-0004 *or else:* LB-MU02-0004	BillyOne ccTalk note validator *or else:* OryOne ccTalk note validator (with stacker)
G	PL-MK21-ET6H	Halo quick-fix square 21 RGB pushbutton
H	AM-1509	Flat key lock L=21mm keyed different
I	AM-1305, *else* HR1-011A-P00	Plastic “A” coinbox, *or else* Metal coin box
L	GE-66SU	AL66S coin acceptor
M	IM-N000-0L10	PP coin entry slot
(N)	C-140102	VPOS Touch Nayax 3G EU-Marshall
(O’)	A-CM0059	Interface pcb for VPOS Touch Nayax
(O”)	A-CM0068	Interface pcb for WL Valina POS
(P)	CH-BC01-0001	ACS RFID Card/Key reader



3. Product description

3.1 General data

Technical specs:	HIRA 2
Size:	See page 6
Weight:	Mini: 30 Kg (50 with floor-stand) - Midi: 39 Kg (59 Kg with floor-stand) – Maxi:35 Kg (55 with floor-stand)
Voltage:	230 Vac - 50 Hz
Nominal power:	340 W max
Operation temperature:	0°C ÷ +50°C
Installation:	Desktop or on floor-stand or wall-mount, indoor
Coin capacity:	Mini: 4000 - Midi: 5600 - Maxi: 7200
Components:	
Power supply unit	MP1 Power Module, Power switching 340W with fan and noise filter
Control board	CMS ARM Full ChangeOne p.c. board, with DISPLAY LCD 2x16
Note validator	BILLYONE, *or else:* ORYONE (with stacker)
Pay-out Hopper	2 x HopperOne S11, or 2 x AH4, or 1 x S11 + 1 x AH4
Coin acceptor	AL66S cctalk
POS Terminal (option)	VPOS Touch Nayax, or preset for Worldline Valina
RFID reader (option)	ACS RFID Card/Key reader
Remote audit (option)	Alberici Hermes GPS/GSM/GPRS (*)

Notice: Euro is the preset currency. Different currencies can be set by using the Alberici Babbel software.

(*) The system requires that the B-to-B Alberici SIM card is inserted into the Hermes module SIM slot, and that a subscription is entered into the ARGO Portal, in order to control the machine via the Internet.

3.2 Available functions

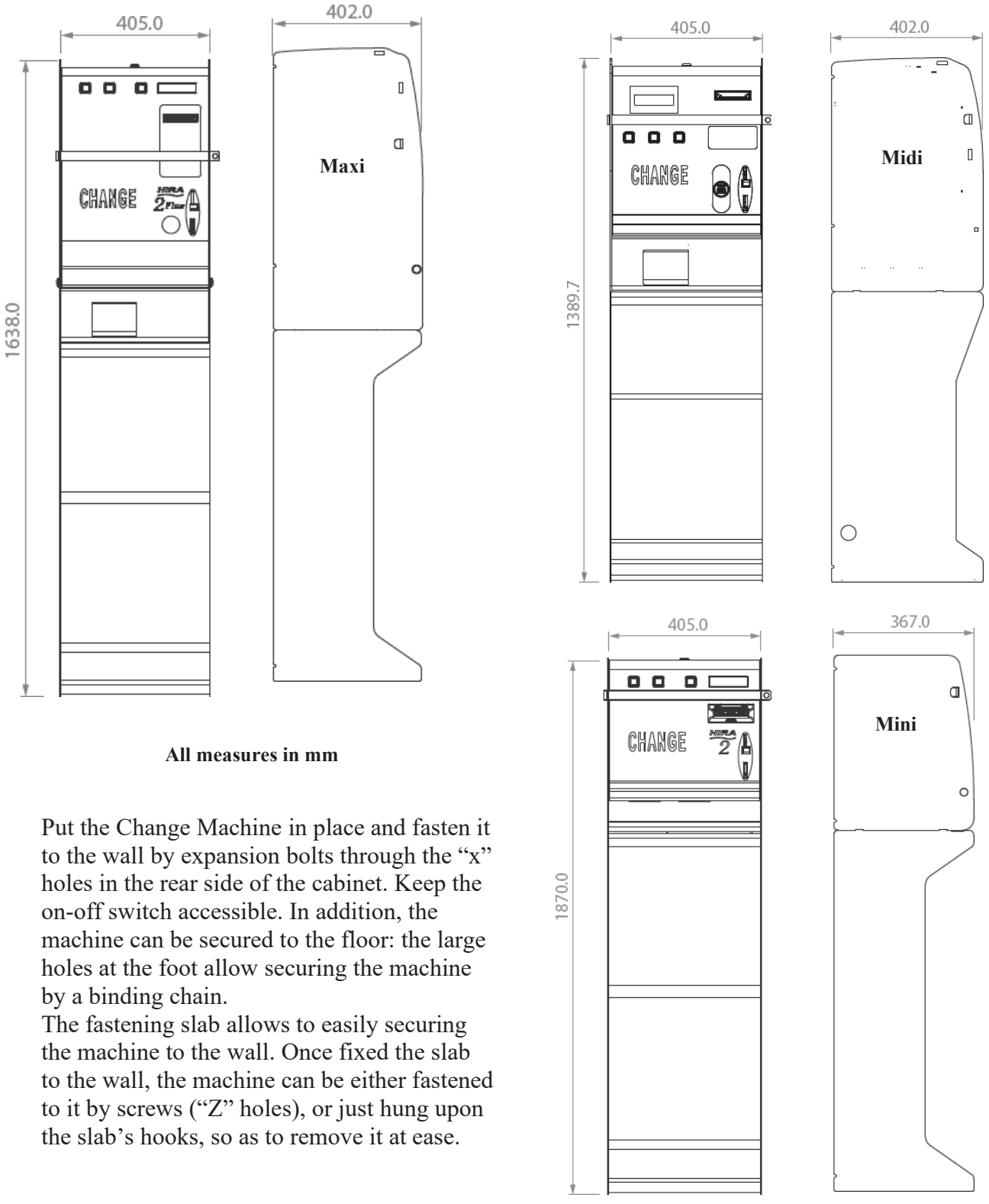
- Change of notes and coins into 1 or 2 denomination coins, at User's choice
- Purchase by notes/coins of 1 or 2 denomination tokens, at User's choice
- Purchase by notes/coins of 1 denomination tokens, with cash change returned
- Purchase of tokens by POS transaction
- Control of accounts via display (by on-board keys)
- Programmable via menu (by on-board keys)
- Change of display language by external "LANGUAGE/SEL+" pushbutton, at User's choice.

4. Warning

- Comply with the instructions in this manual
- Switch power off before any maintenance operation
- Use only within the recommended temperature/humidity range
- Do not expose the machine (and especially the mote acceptor front plate) to direct sun light or to incandescent light (> 3000 Lux)
- When in presence of car exhaust gas or smoke, clean and check the components (the note acceptor in particular) regularly and frequently.
- Do not favour contact with dusts or chemical moisture or sprays, water or other liquids
- Install indoor
- Wipe clean by a dry piece of cloth (or slightly wet with alcohol)
- Do not use thinners or organic solvents
- The note acceptor could reject (or get jammed by) stained notes, or worn out, wet, wrinkled, torn, dog-eared, oil-smeared, with sticking tape or similarly affected.
- Clean monthly the sensors of the note acceptor. Remove paper dust that has accumulated on the drive wheels, by a clean piece of cloth or a cotton swab. Do not use alcohol nor solvents or scrapers.

5. Installation

PAY ATTENTION: IT IS ESSENTIAL TO FASTEN THE MACHINE TO A SOLID WALL BY USING RELIABLE EXPANSION BOLTS.
IT IS RECOMMENDED THAT YOU MAKE USE OF THE WALL-MOUNT SLAB (ref. HRP-021A-V06 for HIRA 2 Mini, HRM-AM15-V06 for HIRA 2 Midi, HRS-015A-V06 for HIRA 2 Maxi) .

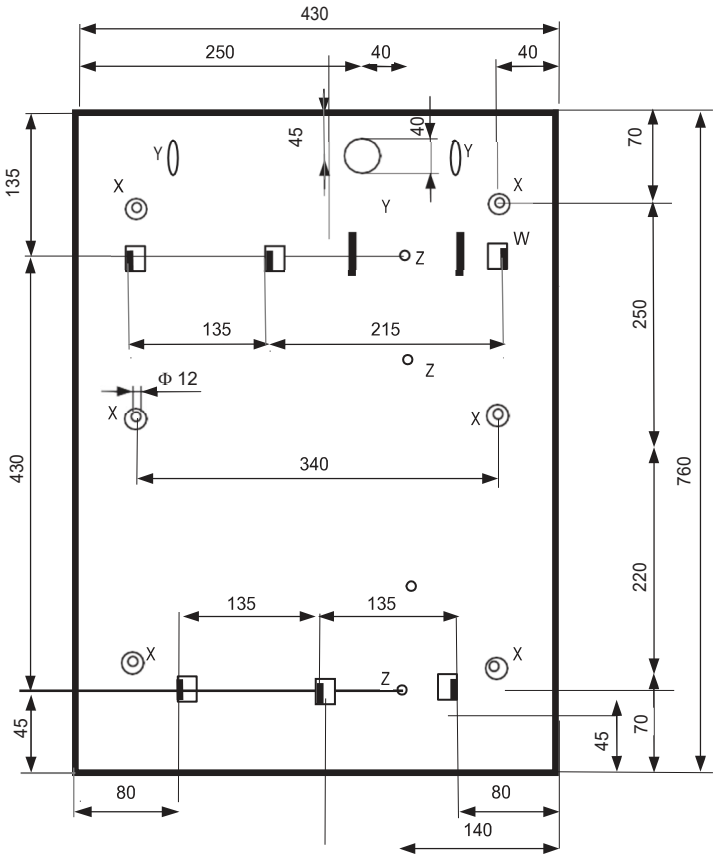


All measures in mm

Put the Change Machine in place and fasten it to the wall by expansion bolts through the “x” holes in the rear side of the cabinet. Keep the on-off switch accessible. In addition, the machine can be secured to the floor: the large holes at the foot allow securing the machine by a binding chain.
The fastening slab allows to easily securing the machine to the wall. Once fixed the slab to the wall, the machine can be either fastened to it by screws (“Z” holes), or just hung upon the slab’s hooks, so as to remove it at ease.

WALL-MOUNT SLABS:

HRS-015A-V06 for HIRA 2 Maxi



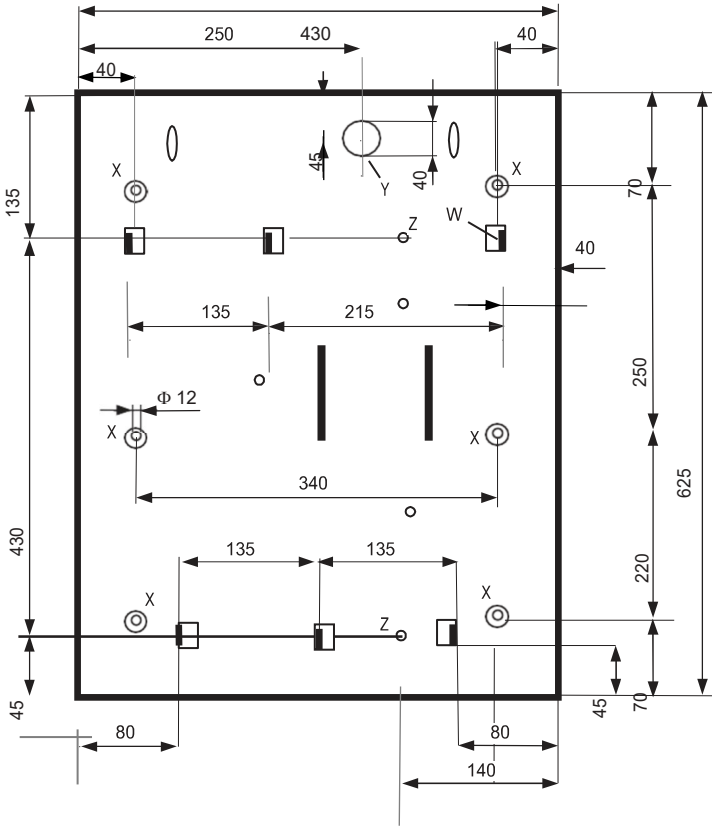
Prepare the tunnel for the power cable in the wall (corresponding to "Y" Hole in the slab).

Fasten the slab to the wall by sturdy expansion bolts, through the 6 "X" (Φ 12 mm) holes.

Connect the cable to its socket behind the machine, and hang the latter on the 4 "W" supporting hooks.

Fix the machine to the slab by M8 screws through the three "Z" threaded holes, if you do not plan to often remove and hang the machine up to its "y" hooks.

HRM-AM15-V06 for HIRA 2 Midi



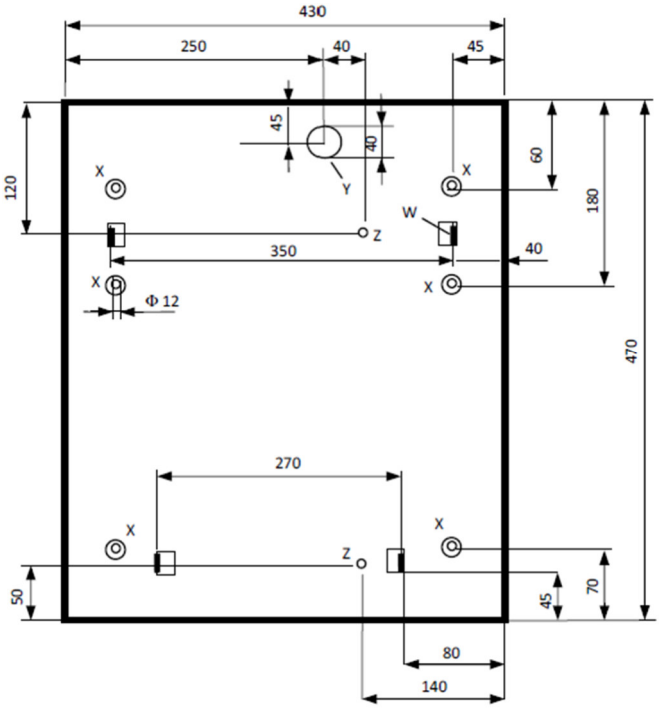
Prepare the tunnel for the power cable in the wall (corresponding to "Y" Hole in the slab).

Fasten the slab to the wall by sturdy expansion bolts, through the 6 "X" (Φ 12 mm) holes.

Connect the cable to its socket behind the machine, and hang the latter on the 4 "W" supporting hooks.

Fix the machine to the slab by M8 screws through the two "Z" threaded holes, if you do not plan to often remove and re–hang the machine up to its "y" hooks.

HRP-021A-V06 FOR HIRA 2 MINI



Prepare the tunnel for the power cable in the wall (corresponding to "Y" Hole in the slab).

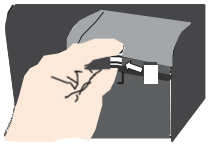
Fasten the slab to the wall by sturdy expansion bolts, through the 6 "X" (Φ 12 mm) holes.

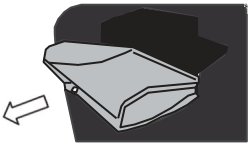
Connect the cable to its socket behind the machine, and hang the latter on the 4 "W" supporting hooks.

Fix the machine to the slab by M8 screws through the two "Z" threaded holes, if you do not plan to often remove and re–hang the machine up to its "y" hooks.

PREPARATION FOR USE:

PAY ATTENTION: FILL THE HOPPERS ONLY WHEN THE MACHINE IS OFF





Open the door and locate extensions capacity on top of the hopper.
Unlock the latch A (white slide) of the cover and slide the latter fully out towards the outside, until is positioned as a pilot chute: pour into the hopper the coins or tokens to be dispensed as change.
Unlock again the latch A and slide the cover back to "closed" position.
Close the door of the machine.
Plug the power cable in, and turn the main switch on.
Component check and self-setup shall start automatically. At the end, a message informs that the machine is ready for operation, showing what coin/token value will be paid in exchange for notes and coins introduced, as well as a welcome wording (Operator enters Promo text, see Sect. 7.3.10).

This message takes shifts with:

As soon as the control board enables the note acceptor, the latter's front slot flashes once in blue colour for each enabled note, or once in red for each disabled note. For instance, if the 5, 10, 20 Euro notes are enabled, and the 50- and 100-Euro notes are disabled, the front slot will flash 3 times in blue colour and 2 (twice) in red. The machine is now ready to operate.
In the stand-by condition, the buttons of all available programs are illuminated in blue light.

If available in the machine, the ACS RFID reader must be first initialized; the Master/Owner key/card and the Manager/Operator key/card must be initialized as well. The Manager/Operator key/card is generally used for Service operations (see Section 7.3.5.4).
By means of the Master/Owner key/card, User key/cards can be created too, by which Users may purchase Tokens or services from compatible ACS Readers (i.e. same PIN as the ACS Reader in the machine) placed in other units. The credit in the key/cards can be loaded or topped up in the Hira machine by inserting cash in the coin acceptor or in the note validator (see Section 6.4.1).

6. Operation

Three pushbuttons are available: the ones marked "SEL " and "OK" allow the User to choose the coin (or token) denomination he wants back as change. The button will confirm the selected option. The "Language/SEL" button allows the User to get display messages in his preferred language: default languages are Italian, English, German, French, Dutch; other languages can be loaded by using the Babbel software available from the Alberici web site.
The machine offers 3 operation modes: AUTOMATIC, MANUAL, and MANUAL 2P.

6.1 MANUAL MODE

6.1.1 CASH (in Manual Mode Pay-out table not available for Cash purchase)

A. **MANUAL MODE**: insert money until the desired amount is reached. When the inserted money reaches the token (or coin) smaller value, the "OK" and "SEL" buttons will turn to green colour. Add money up to your desired purchase. Make use of "SEL" to search for the denomination looked for. Press the "OK" button to get the coins or tokens.
If the machine is set to *Tokens + Change* (see section 7.2.5.C), choose and confirm the desired number of tokens: if odd amount remains, small change coins will be returned.

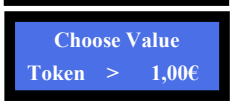
B. **MANUAL 2P MODE**: insert money until the desired amount is reached. When the inserted money reaches the token (or coin) smaller value, the corresponding button ("OK" or "SEL") buttons will turn to green colour. Add money up to the desired purchase amount. Press the button corresponding to the desired denomination to get it: "OK"= Hopper 1 (e.g.: 1€), "SEL"=Hopper 2 (e.g.: 0,50€):
If the machine is set to *Tokens + Coins* (see section 7.2.5.C), it will be possible to either buy Tokens by touching the "OK" button, or change to Coins by the "SEL" key.

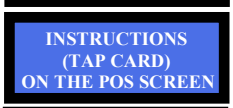
6.1.2 POS: *POS operation is available only if the machine menu has been set up to deliver TOKENS only. NOTICE: if the Pay-out Table is enabled and programmed (section 7.2.5.C.i), the POS transactions shall obey the Pay-out Table settings (see: Automatic Mode, section 6.2.2) even in Automatic Mode operation.*

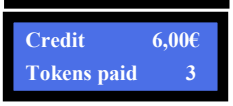
If the machine is set for dispensing Coins, the POS terminal will get automatically disabled. Only single-denomination hoppers are compatible with POS operation; consequently, the POS function is not available in machines equipped with multi-denomination (Discriminator) Hoppers.

The display prompts to touch the "SEL" button if purchase by credit/debit card is desired:

so press the "SEL" button: if the values of the Tokens in the hoppers have been set the same, the display will advise the lowest amount set in the Pay-out Table (sect. *7.2.5.C.i)*:







- To select the *number of Tokens* to be purchased, touch the "SEL" / "LANGUAGE/SEL+" buttons of the machine as many times as necessary to show the desired quantity, then confirm by the OK button:
- If the Tokens in the hoppers have been set to different values, the display will ask to choose the *type of Token* that must be purchased:
- Once choice is made (ex. 3 x 2,00€ Tokens) by "LANGUAGE/SEL+" or "SEL", press "OK" and tap your ChipCard on the POS Terminal:
- The machine will dispense the selected number of tokens, and the bank network will deduct the amount from the Credit/Debit Card account.

Please notice: 30 idle seconds after pressing the SEL- button, the system returns to stand-by.

If the Pay-out Table has been enabled and programmed, the User will be able to choose only among the payment levels preset by the Operator *(see section 7.2.5.C.i). When purchasing through the POS, if Bonus must be awarded, the Pay-out Table must be programmed: this is the only way to bestow POS-purchase bonus.*

6.2 AUTOMATIC MODE

6.2.1 CASH: when cash is inserted, the credited amount is displayed, and the hopper(s) start pay-out. The machine combines the coins contained in the hoppers in as much equal amounts as possible. If the machine is set to Tokens+Change, all the tokens that can be bought by the inserted sum will be dispensed and, if odd amount remains, small change coins will be returned. If the Bonus (Tokens) has been programmed, the payout will include the Bonus tokens (see sect.7.3.8).

6.2.1.A ***PAY-OUT TABLE ENABLED AND PROGRAMMED (for TOKENS only!):*** when cash is inserted, the display will show the credited amount, and the machine shall automatically pay-out according to the combination that the Operator has pre-programmed for the amount inserted. The Pay-out Table can also be programmed to pay out more tokens than those that can be purchased based on the credit entered, thus allowing to bestow Bonus as well.

6.2.2 POS: POS payments shall only allow to obtain ***only Tokens***.

If the machine is set for dispensing coins, POS operation will be automatically disabled. POS will be available only if the machine is equipped with single-coin Hopper; in machines equipped with multi-coin Hopper Discriminator, the configuration menu shall make the POS option unavailable.

Operation takes place as described in section 6.1.2 POS above, with the provision that ***the User will be able to choose only among the payment levels preset by the Operator in the Pay-out Table*** *(see section 7.2.5.C.i). When purchasing through the POS, if Bonus must be awarded, the Pay-out Table must be programmed: this is also the only way to bestow POS-purchase bonus.*

PAY ATTENTION: 30 idle seconds after pressing the SEL- button, the system returns to stand-by.
WARNING: If there are not enough coins/tokens in the hopper to fulfil the whole payout request, the remaining credit shall be displayed and retained in memory. Switch off the machine, fill the hoppers, and switch it on again: the remaining credit shall be paid out. It is otherwise possible to set the Remaining Credit Menu (see section 7.3.14) so as to cancel automatically the remaining credit - and at the same time record it in the Accounts menu.

6.3 AVAILABLE OPTIONS ACCORDING TO DISPENSING MODE

DISPENSING MODE	PAY-OUT TABLE	POS
TOKENS, AUTOMATIC MODE	YES	YES
TOKENS, MANUAL MODE	YES	YES
TOKENS, MANUAL MODE 2P	YES	YES
COINS, AUTOMATIC MODE	NO	NO
COINS, MANUAL MODE	NO	NO
COINS, MANUAL MODE 2P	NO	NO
TOKENS+RET. CHANGE AUTOM. MODE	YES (Setup TOK/CH.)	NO
TOKENS+RET. CHANGE MANUAL MODE	NO	NO
TOKENS+COINS MANUAL MODE 2P	NO	NO

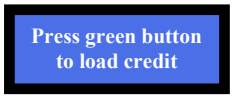
6.4 RECHARGE OF CARDS/KEYS

When equipped with the ACS Card/Key Reader (see Section 7.2.5.D), the Money Changer can operate as recharger of credit for User Card/Keys. These can then be used to purchase services or goods from nearby self-service dispensers or distributor kiosks, provided that the ACS readers in such kiosks have been initialized with the same PIN as the one in the Change Machine. When the User Card/Key is in the Hira ACS reader, and money is introduced, the display will prompt for pressing any green-lit button to load the credit onto the Card/Key.

6.5 OPERATIONS WITH RFID CARDS/KEYS

If the machine is equipped with the ACS Reader for the RFID Card/Keys, it is possible to use such Card/Keys to obtain or perform useful functions, according to which type of Card/Key is inserted.

6.5.1 Operation with User Card/Key

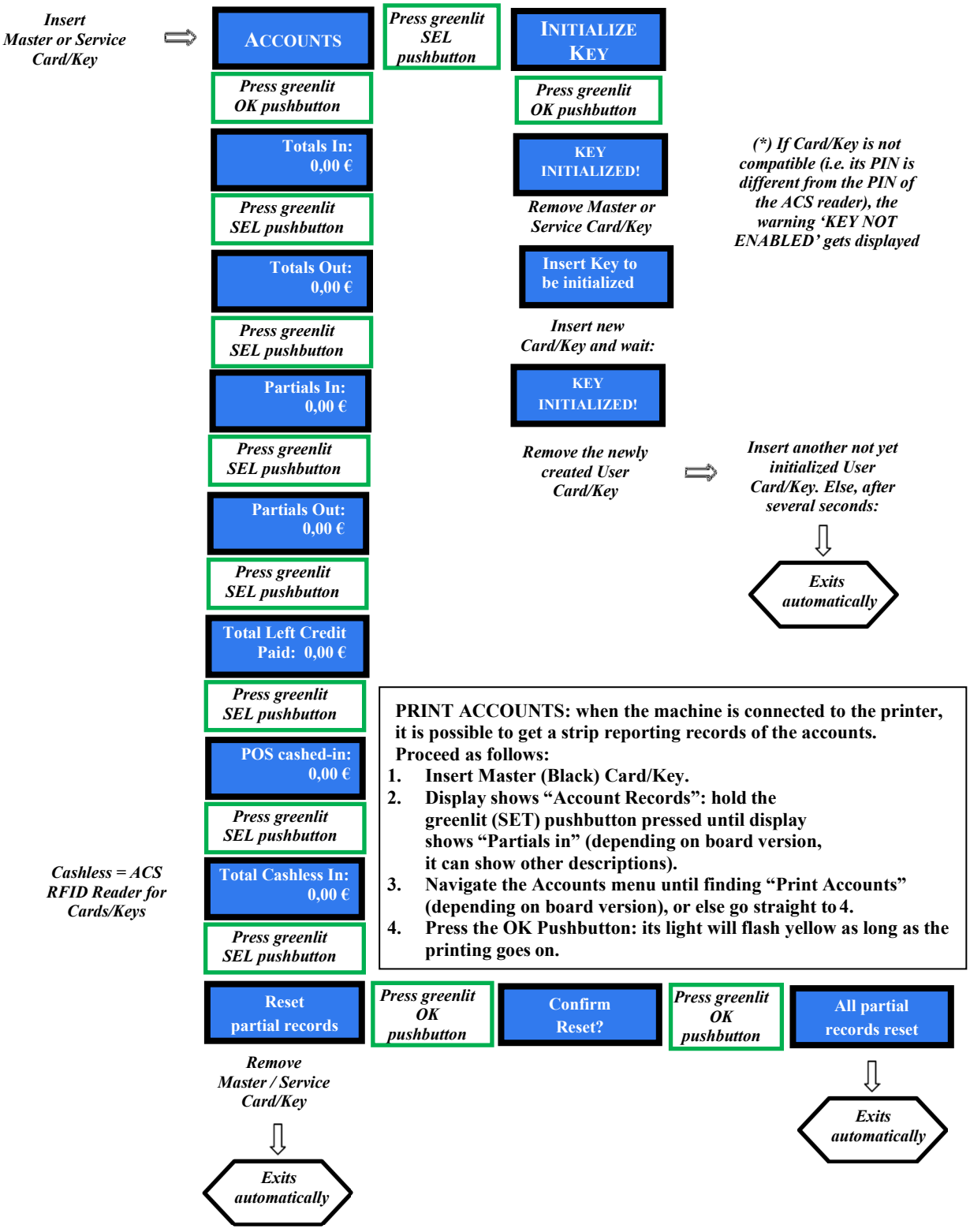


When inserting a compatible RFID User Card/Key (see section *7.2.5.D Set up Cashless*), the available credit gets shown, and a pushbutton will light up and flash in green colour. If more credit must be loaded, insert more coins/notes until the desired value is attained, press the greenlit button, then wait until the storing message ("Data are being stored") disappears, then remove the Card/Key loaded with new credit. The Card/Key can now be used to buy services or products from machines equipped with ACS reader, provided that also such ACS readers have been initialized with the same password as the RFID reader of the change machine.

6.5.2 **Operation with Service or Master Key** *(see also section 7.2.5.D)*

Please note that the Service and Master cards/keys must be initialized first (see section 7.3.5.4a).

Insert the Service Card/Key (white) or the Master Card/Key (black) in the ACS reader to get access to the Service Menu. Choose by SEL between the "Accounts" and the "Initialize Keys" options, and confirm your choice by OK. According to the chosen option, it will be possible to:
1) check and reset the Accounts Data. By the Master/Owner Card/Key, the Accounts data can be printed out if the machine is connected to the printer (see menu steps in next page and at foot of next page); or,
2) initialize the User Card/Keys.



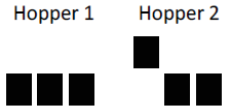
7. System configuration

7.1 Default configuration

The HIRA 2 Maxi is preset by default as follows (unless requested for different setup):

Control Board Parameters	Pay-out mode = AUTOMATIC
	Level sensors = DISABLED
Hopper S11 Parameters	Hoppers no. 1 / 2 (*) = € 2.00 = ENABLED
BillyOne/OryOne Validator [ccTalk] Parameters	€ 5.00 - …. - € 100.00 = ENABLED
AL66 S [ccTalk]coin acceptor Parameters	€ 0.05 - € 0.10 - € 0.20 = DISABLED
	€ 0.50 - € 1.00 - € 2.00 = ENABLED

(*) The Hopper 1 (primary) is placed at the left side (watching the machine from the front); Hopper 2 (secondary) is placed at the right side.
Set Dip-switches in HP1 to address 3 (all DS to OFF)
Set Dip-switches in HP2 to 4 (no. 1=ON, nos. 2= 3=OFF).



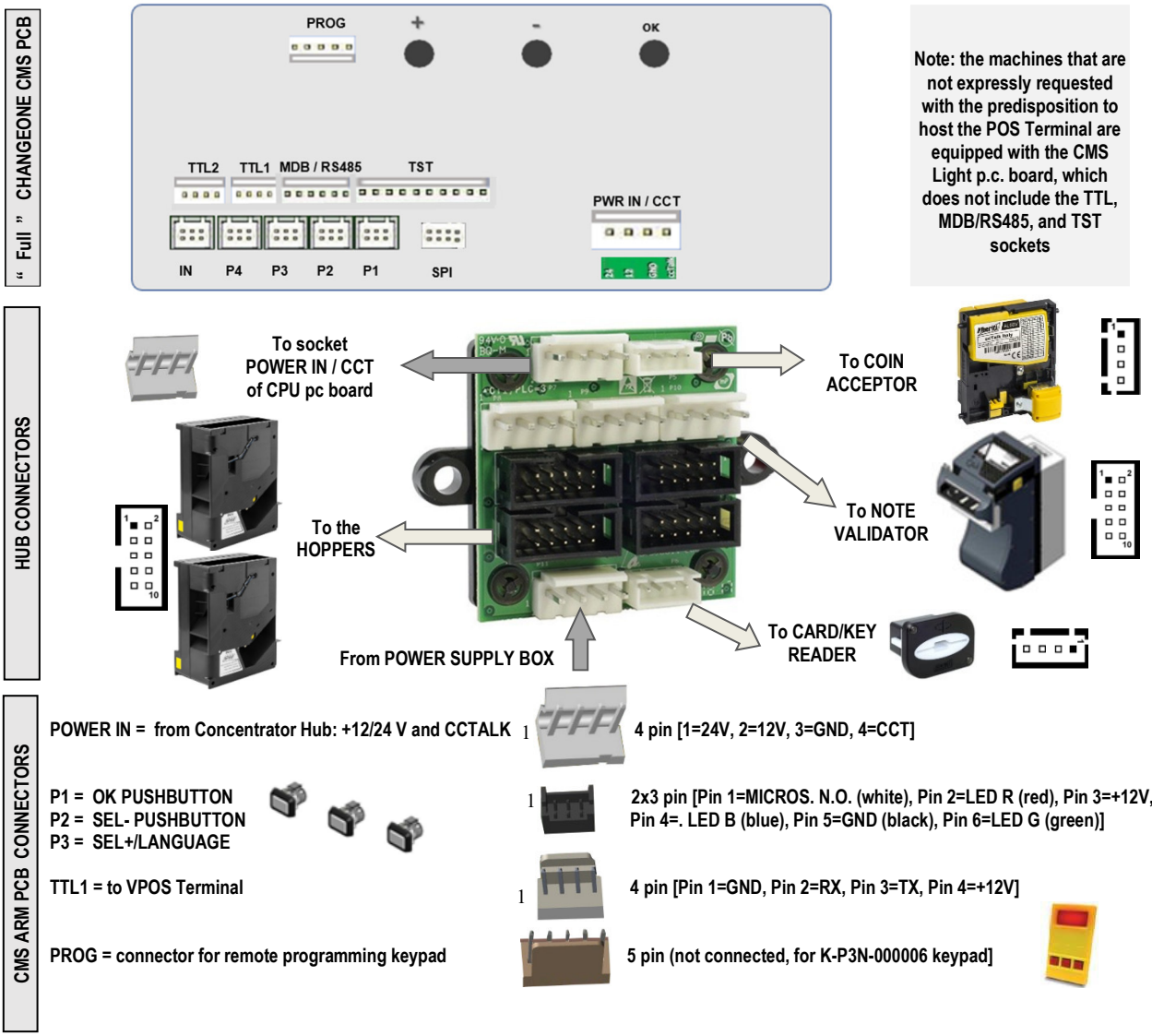
Restore default configuration

If any undesired variation is made, it will be possible to restore the default configuration as follows: enter the initial menu, scroll by UP and DOWN keys and choose *RESTORE DEFAULT CONFIGURATION* then press OK; the message *DEFAULT CONFIG. RESTORED* will be displayed.

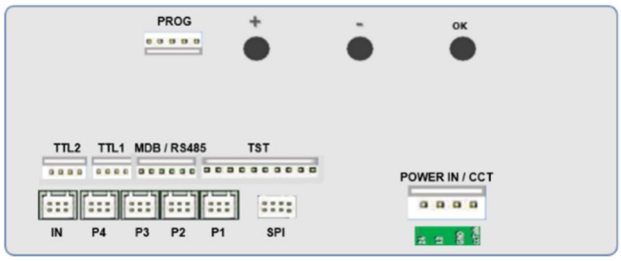
NOTICE: the *RESTORE DEFAULT CONFIGURATION* command restores the default PIN code (0000) .

7.2 System connections

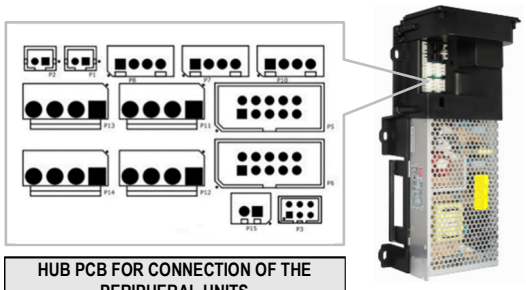
7.2.1 Models with separate Power box and Hub pcb



7.2.2 MODELS WITH MP1 POWER MODULE AND INTEGRATED HUB PCB



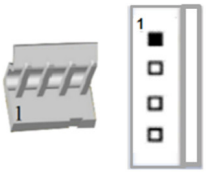
" Full " CHANGEONE CMS PCB



HUB PCB FOR CONNECTION OF THE PERIPHERAL UNITS

SOCKETS IN CHANGEONE CMS PCB

PWR IN/CCT = from the Hub pcb (in the MP1 Power Module): +24V / +12V / GND / CCTALK

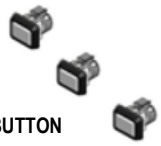


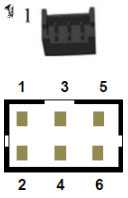
+24V	1	Pin 1 = green wire
+12 V	2	Pin 2 = yellow wire
GND	3	Pin 3 = black wire
DATA	4	Pin 4 = white wire

P1 = OK PUSHBUTTON

P2 = SEL- PUSHBUTTON

P3 = SEL+/LANGUAGE PUSHBUTTON

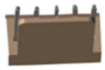




Micro NO	1	Pin 1 = grey wire
LED R (Red)	2	Pin 2 = red wire
+12 V	3	Pin 3 = yellow wire
LED B (Blue)	4	Pin 4 = blue wire
GND	5	Pin 5 = black wire
LED G (Green)	6	Pin 6 = green wire

TTL1 = to the POS Terminal

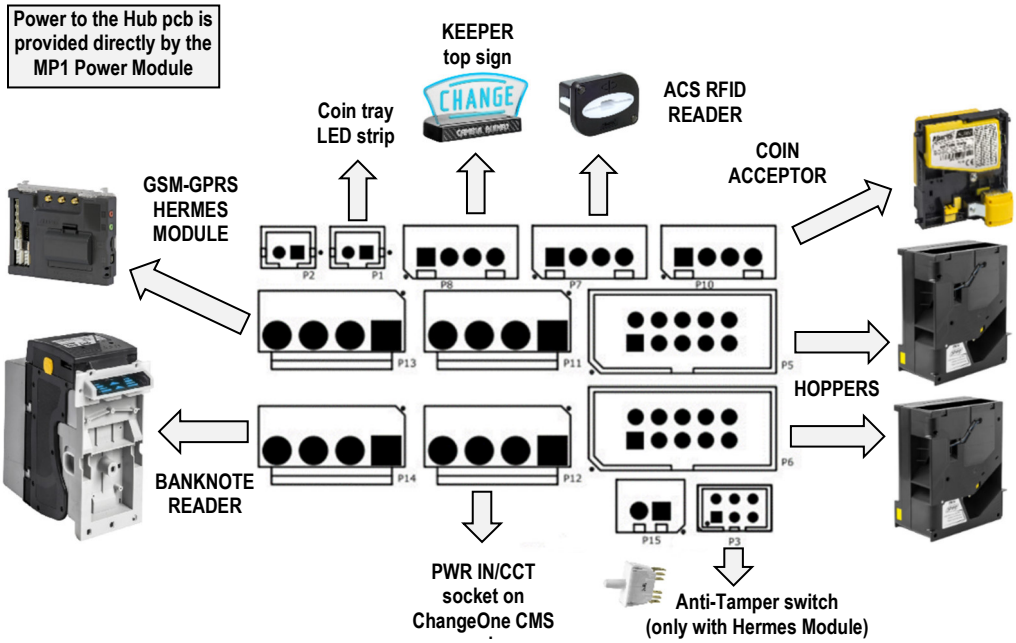
PROG = socket for the optional K-P3N-000006 external programming keypad



5 pin (not connected)

SOCKETS IN HUB PCB (ON INTEGRATED MP1 POWER MODULE)

Power to the Hub pcb is provided directly by the MP1 Power Module



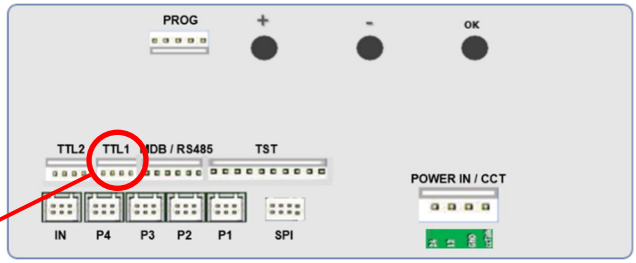
DATA	1	2	VOID
VOID	3	4	GND
VOID	5	6	VOID
+24V	7	8	GND
VOID	9	10	+24V

DATA	1
GND	2
NC	3
+12/24 V	4

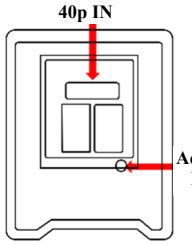
+24V	1
+12 V	2
GND	3
DATA	4

7.2.3 INSTALLING THE POS TERMINAL:

Depending on the type of POS that the machine has been requested, the relevant interface with cable is provided among the accessories (find it inside the cashbox). Connect the 4p end of the POS Interface cable to the TTL1 socket of the main pcb:

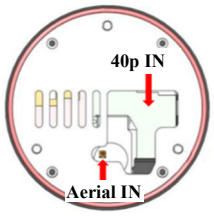


NAYAX 3G



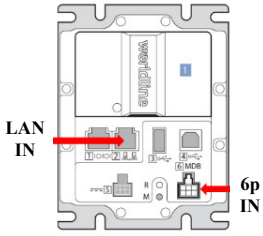
Connect the 40p end of the POS Interface cable and the aerial as indicated

NAYAX ONYX



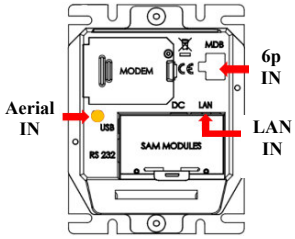
Connect the 40p end of the POS Interface cable and the aerial as indicated

WL VALINA



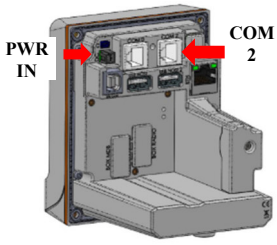
Connect the black 6p (MDB) end and the Ethernet connector (LAN) of the POS Interface cable as indicated.

PAYTER



Connect the white 6p (MDB) end and the Ethernet connector (LAN) of the POS Interface cable as indicated.

INGENICO



Connect the RJ11 plug of the interface cable to the POS COM 2 socket as indicated.

Connect the 2p plug (yellow and black wires) to the PWR socket of the POS terminal as indicated.

Start the Service Menu:

1. go to “Peripheral Units Setup” and confirm (see 7.2.1 / 7.2.5); go to “Set up Dispensing Mode” and confirm (see 7.2.5.C);
2. set to “TOKENS” and confirm; then set values of Tokens in the Hopper;
3. set MODE to “AUTOMATIC” or to “MANUAL”; if AUTOMATIC has been chosen, enable and program the “Pay-out Table”; if desired, the “Pay-out Table” can be enabled also for MANUAL mode;
4. set hopper Level Sensors and confirm: the display will return to “Set up Dispensing Mode”;
5. go to “Enable/Disable POS”, and ENABLE POS;
6 select type: NAYAX, or VALINA, or PAYTER, or INGENICO, and confirm; then exit the Menu.

Menu functions

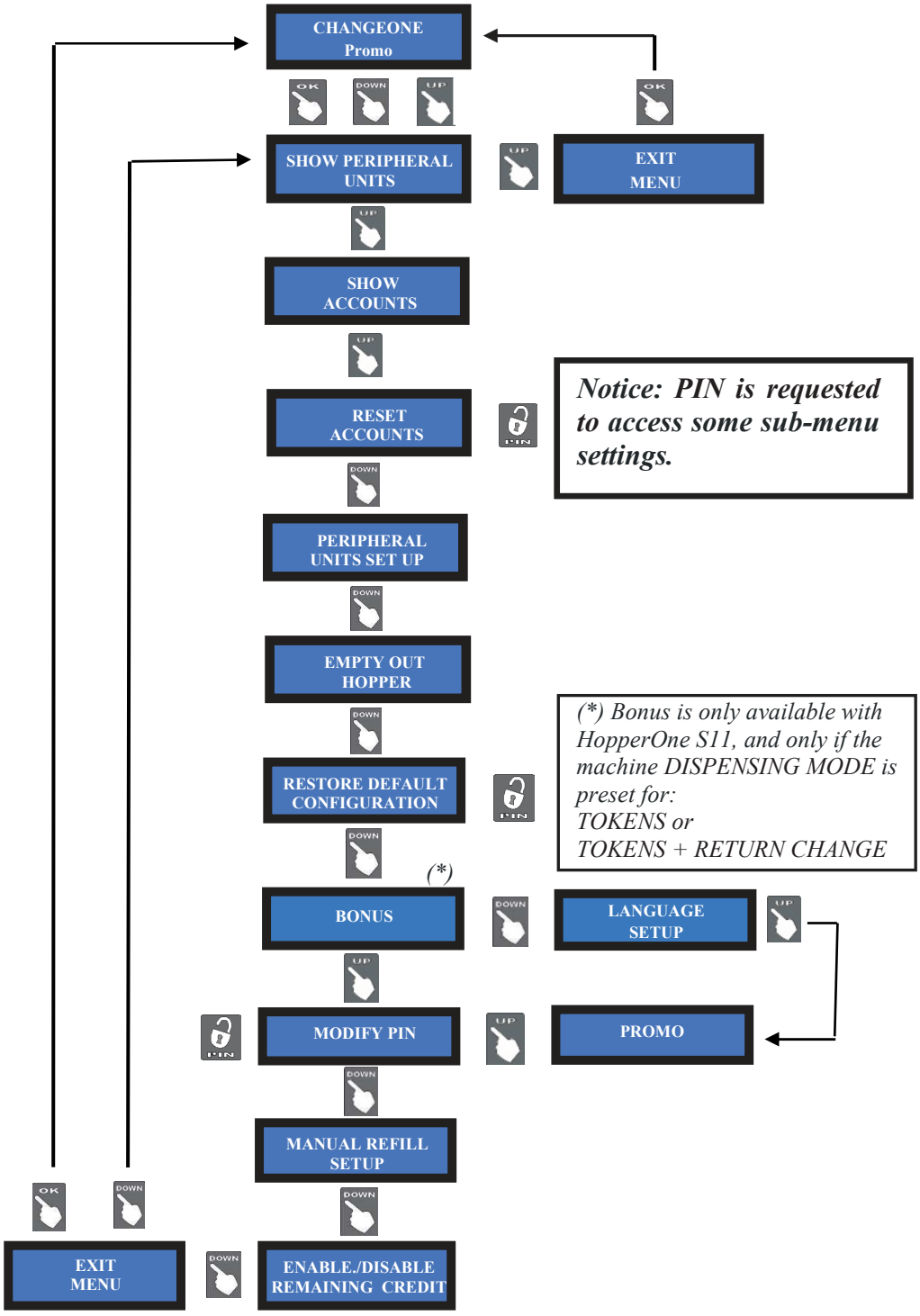
7.2.1 SURFING THE MENU:

To enter the menu and to navigate it, keep continuously pressed the 3 buttons (**"OK", "+" / "-"**) behind the display for 5 seconds.

"OK" **confirm selection**

"+" / "-" **navigate menu UP and DOWN; or, modify figures and letters**

MENU MAIN STRUCTURE

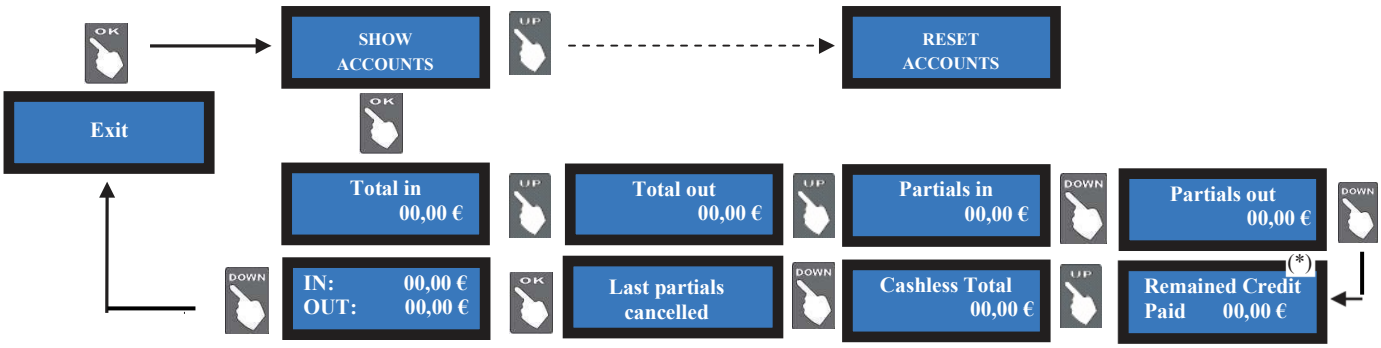


7.2.2 SHOW PERIPHERAL UNITS

This menu allows to check the state of the PERIPHERAL UNITS, for instance:

7.2.3 SHOW ACCOUNTS

This menu allows to check the total and the partial values of cashed and paid amounts.



*(*) **Reset of the remaining credit:** see section 7.3.13*

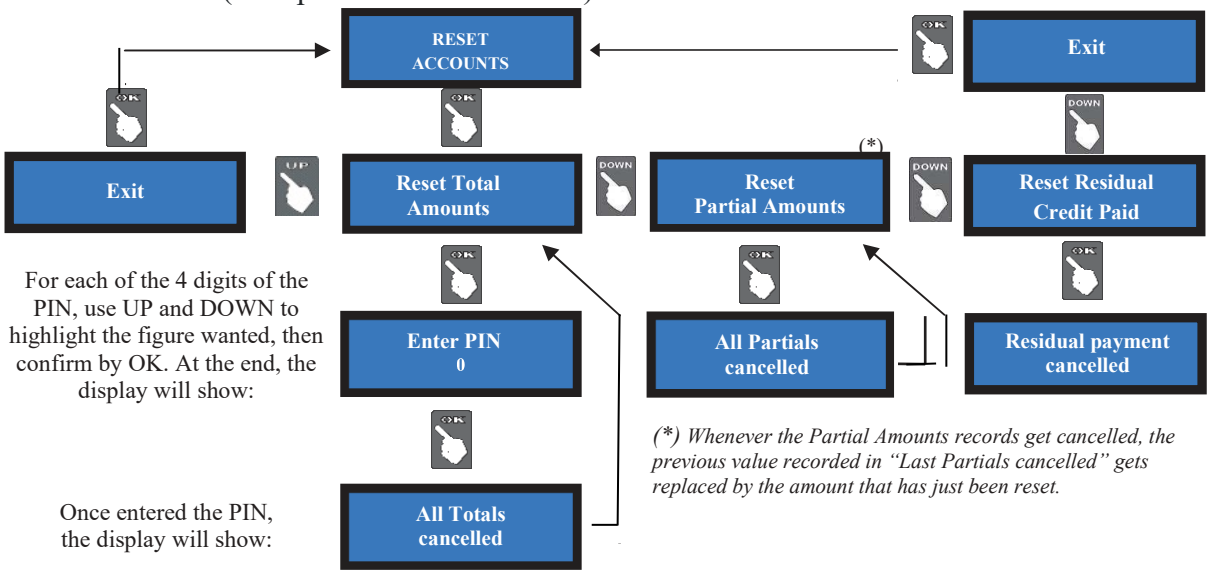
- Press OK: the display will show the total amounts introduced (TOTAL IN). Press UP, and OK if you want to exit the ACCOUNTS menu.
- Or else, press DOWN to check the total amounts dispensed (TOTAL OUT).
- Press DOWN to go on browsing the submenu.

Notice: whenever the Partial Amounts records get cancelled (see section 7.2.4), the previous value recorded in "Last Partials cancelled" gets replaced by the amount that has just been reset.

LAST AMOUNT DISPENSED: when the board is in stand-by condition, it is possible to check the last amount dispensed, by holding the SELECT pushbutton for full 4".

7.2.4 RESET ACCOUNTS

To use this sub-menu it is necessary to digit the PIN code. This function allows to cancel the account records (both paid out and cashed in) of the machine.

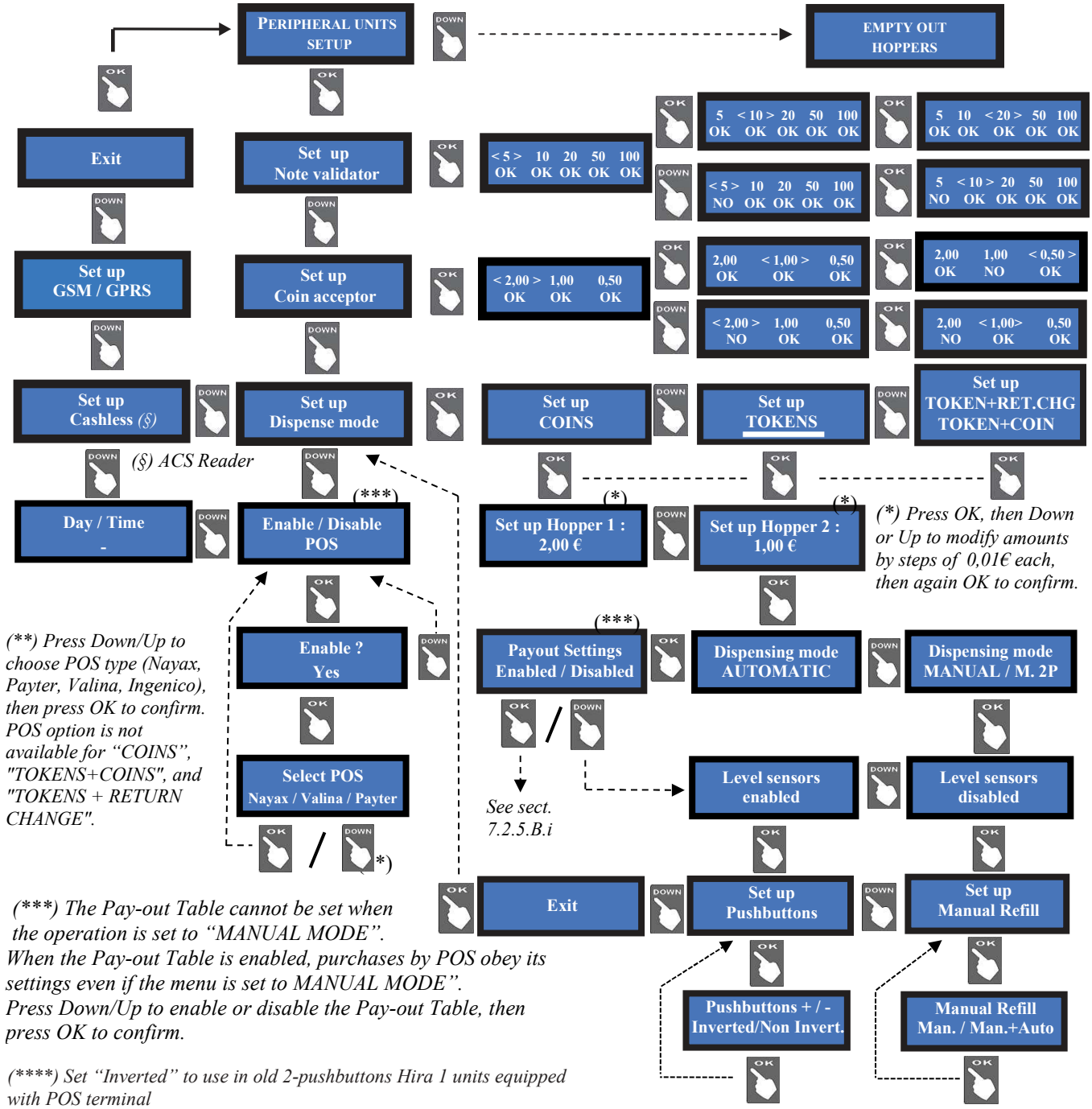


(*) Whenever the Partial Amounts records get cancelled, the previous value recorded in "Last Partials cancelled" gets replaced by the amount that has just been reset.

PLEASE NOTE: when re-configuring the unit from token dispenser to coins dispenser, always activate *RESTORE DEFAULT CONFIGURATION* and then *RESET ACCOUNT RECORDS*.
If not done, memory of the bonus given would distort the audit.

7.2.5 SETTING UP THE PERIPHERAL UNITS AND THE POS

This menu allows to set up the denominations accepted by the note validator and by the coin acceptor, as well as the value of the coins/tokens dispensed. It also permits to set the change mode as either automatic or manual, and to enable/disable the full/void sensors of the hoppers.



(***) The Pay-out Table cannot be set when the operation is set to "MANUAL MODE". When the Pay-out Table is enabled, purchases by POS obey its settings even if the menu is set to MANUAL MODE". Press Down/Up to enable or disable the Pay-out Table, then press OK to confirm.

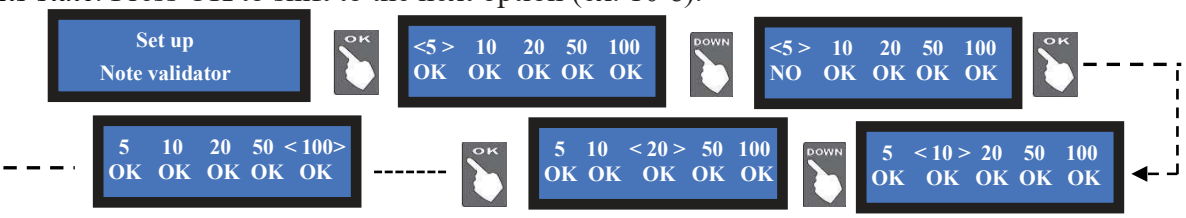
(****) Set "Inverted" to use in old 2-pushbuttons Hira 1 units equipped with POS terminal

Single-coin hopper, menu set to dispense TOKENS	
POS	Enable/disable option available, POS terminal functioning
Pay-out Table	Available after choosing the Automatic Dispensing Mode in the Menu

Single-coin hopper, menu set to dispense COINS		Multi-coin hopper, menu set to dispense COINS	
POS	Enable/disable option not available, POS not working	**POS**	Enable/disable option not available, POS not working
Pay-out Table	Available in the Menu for Change functions	**Pay-out Table**	Not available in the Menu

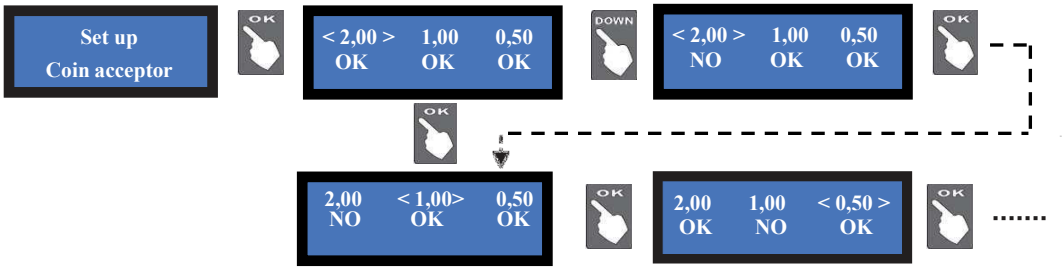
7.2.5.A NOTE VALIDATOR SETUP

All the programmed note values get automatically enabled at power-on. To modify acceptance, press OK to get to the first option (ex. 5 €) and highlight it, then press UP or DOWN to reverse its state. Press OK to shift to the next option (ex. 10 €).



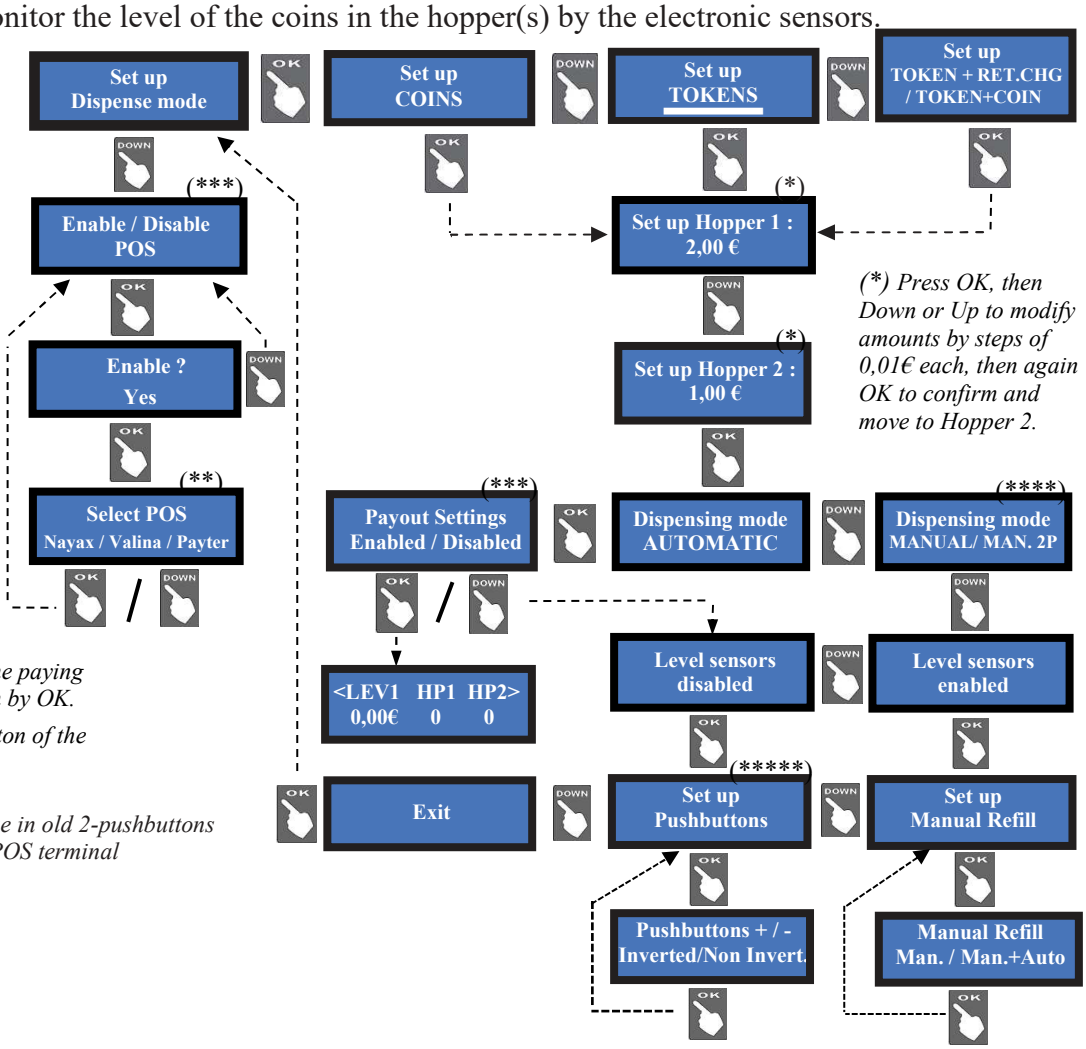
7.2.5.B COIN SELECTOR SETUP

The board automatically detects the presence of the coin selector during initial check. Among the accepted coins (0.05-to-2 €), the following ones get enabled by default: 0.50 € - 1.00 € - 2.00 €. To modify this condition, press OK to get to the first option (ex. 2 €) and highlight it, then press UP or DOWN to reverse its state. Press OK to shift to the next option (ex. 1 €)



7.2.5.C DISPENSING MODE AND POS SETUP

Allows to choose whether to dispense COINS or TOKENS or TOKENS+CHANGE, and whether the DISPENSING MODE will be AUTOMATIC or MANUAL. The values in the hoppers are set by this sub-menu. It also permits to monitor the level of the coins in the hopper(s) by the electronic sensors.



(**) not available for "TOKENS+COINS", "TOKENS + RETURN CHANGE", and "COINS" dispensing Press OK, then Down/Up to choose POS type (Nayax, Payter, Valina), then press OK to confirm.

(***) Setting of the Pay-out Table: see section 7.2.5.C.i in next page. The Table is not available in Manual Mode

(*) Press OK, then Down or Up to modify amounts by steps of 0,01€ each, then again OK to confirm and move to Hopper 2.

(****) MANUAL: choose the paying hopper by SEL, and confirm by OK.

MANUAL 2P: press the button of the paying hopper desired.

(*****) Set "Inverted" to use in old 2-pushbuttons Hira 1 units equipped with POS terminal

NOTICE: *monitoring of level sensors is disabled by default. This means that the board does not know when the hopper is empty, so it will send the pay-out command even if there are no coins available. When the hopper runs out of coins during dispensing or at the end of payment, no warning will be displayed.*
If the empty state is detected when powering the unit, this one shall not accept any money.
If the monitoring has been enabled, and there are not enough coins in the hopper, the display will warn that the hopper is empty, even though there are always about 20 coins available, so as to complete large change payout.

7.2.5.C.i SETTING THE PAY-OUT TABLE (available only if the "TOKENS" or the "TOKENS + Change" option has been set - not available for "COINS", and "TOKENS + RETURN CHANGE" options)

When the Pay-out Table is enabled, the Operator can configure *8 different combinations of change*, each of them related to the amount introduced by the User.

The LEVEL box can be set to a determined amount (typically, the accepted coin and note denominations), while the relevant HP1 and HP2 values can be set to:
- number of pieces so that their calculation sums up to the amount set in the LEVEL box, *if change in cash is handled*;
- any desired value, *if Tokens only will be handled - this will allow for awarding bonus as well. If accumulation of credit (to reach the bonus level) is necessary, please set the Dispensing Mode to MANUAL.*
- any consistent combination*, if Tokens and return change will be handled.*

When choosing to enable the Pay-Out Table, the display will prompt you to set the payout combination for the first level available (LEV1). To set it up, highlight LEV1 by "OK" and set its value by the "+" button, then confirm by "OK". The cursor will shift to the HP1 box: confirm by "OK", and set its value by the "+" button (modify by "-"), then confirm by "OK", and do the same for HP2. When confirming the value in HP2, the chosen combination for LEV1 will be shown.
Step from LEV1 up to LEV2 by "+", highlight LEV2 by "OK", and repeat above process.

OPERATION AFTER SETTING THE PAY-OUT TABLE:
when the User will insert money corresponding to any of the programmed levels, the machine shall pay out the combination of pieces that the Operator has pre-programmed for the amount inserted by the User (see section 6.1.A).

SETTING THE PAY-OUT TABLE:
Let us assume that HP1 has been set to 1 €, and that HP2 has been set at 0,10€.
Press OK when prompted by the message "Set up Token/Change-Enable" to confirm that you want to set the Pay-out Table. Level 1 will be shown:

LEVEL 1: Press "OK", then by the "+" key set LEV1 to the first denomination that you want to accept, for instance 0,20€. Confirm by "OK"; the display will automatically set HP2 = 2, i.e. two 0,10€ coins would be paid against 0,20€.

Confirm until you get:

Take care: "<LEV 1 HP1 HP2>",
not "<LEV1> HP1 HP2"!

PRESS "+" FOR LEVEL 2 (or PRESS REPEATEDLY "+" TO EXIT).

LEVEL 2: By "OK", confirm LEV2. By "+", set LEV2 to 0,50€ and confirm. HP2 will automatically set to 5 pieces. Confirm until " <LEV 2 HP1 HP2>" (not "<LEV2> HP1 HP2" !) shows again.
PRESS "+" FOR LEVEL 3 (or PRESS REPEATEDLY "+" TO EXIT).

LEVEL 3: By "OK", confirm LEV3.
By "+", set Level 3 to 1,00€ and confirm. HP1 will automatically set to 1 piece (1€).
By the "-" button, change HP1 to 0 and press OK; by the "+" button, set HP2 to 10 (10x0,10€)
Confirm until <LEV 3 HP1 HP2> shows again.
PRESS "+" FOR LEVEL 4 (PRESS REPEATEDLY "+" TO EXIT).

LEVEL 4: By “OK”, confirm LEV5.
By “+”, set Level 4 to 2,00€ and confirm. HP1 will automatically set to 2 pieces (2 x 1€).
You can set the pay-out table so as dispense any of the following combinations: (A) 2x1€ coins, or (B) 1x1€ + 10x0,10€ coins, or else (C) 20x0,10€ coins.
Suppose choosing the combination (C): by the “-” button, change HP1 to 1 (1x1€ coins) and press OK. By the “+” button, set HP2 to 10 (10x0,10€)
Confirm until <LEV 4 HP1 HP2> shows again.
PRESS “+” FOR LEVEL 5 (PRESS REPEATEDLY “+” TO EXIT).

LEVEL 5: By “OK”, confirm LEV4.
By “+”, set Level 5 to 5,00€ and confirm. HP1 will automatically set to 5 pieces (5 x 1€).
You can set the pay-out table so as dispense any of the following combinations: (A) 5x1€ coins, or (B) 1x1€ + 40x0,10€ coins, or (C) 2x1€ + 30x0,10€ coins, or (E) 3x1 + 20x0,10€ coins, or (F) 4x1 + 10x0,10€ coins, or else (G) 50x0,10€.
Suppose choosing the combination (F): by the “-” button, change HP1 to 4 and press OK; by the “+” button, set HP2 to 10 (10x0,10€)
Confirm until <LEV 5 HP1 HP2> shows again.
PRESS “+” FOR LEVEL 6 (PRESS REPEATEDLY “+” TO EXIT).

LEVEL 6: By “OK”, confirm LEV6.
By “+”, set Level 6 to 10,00€ and confirm. HP1 will automatically set to 10 pieces (10 x 1€).
You can set the pay-out table so as dispense any of the following combinations: (A) 10x1€ coins, or (B) 9x1€ + 10x0,10€ coins, or (C) 8x1€ + 20x0,10€ coins, or ... (N) 5x1 + 50x0,10€ coins, and so on.
Suppose choosing the combination (B): by the “-” button, change HP1 to 9 and press OK; by the “+” button, set HP2 to 10 (10x0,10€).
Confirm until <LEV 6 HP1 HP2> shows again.
PRESS “+” FOR LEVEL 7 (PRESS REPEATEDLY “+” TO EXIT).

LEVEL 7: By “OK”, confirm LEV7.
By “+”, set Level 7 to 20,00€ and confirm.
You can set the pay-out table so as dispense any of the following combinations: (A) 20x1€ coins, or (B) 19x1€ + 10x0,10€ coins, or (C) 18x1€ + 20x0,10€ coins, or … (M) 16x1€ + 40x0,10€, or ... (N) 5x1 + 50x0,10€, and so on. Suppose choosing the combination (M): by the “-” button, change HP1 to 16 and press OK; by the “+” button, set HP2 to 40 (40x0,10€).
Confirm until <LEV 7 HP1 HP2> shows again.
PRESS “+” FOR LEVEL 8, OR PRESS OK UNTIL EXITING.

NOTICE: *monitoring of level sensors is disabled by default. This means that the board does not know when the hopper is empty, so it will send the pay-out command even if there are no coins available. When the hopper runs out of coins during dispensing or at the end of payment, no warning will be displayed. If the empty state is detected when powering the unit, this one shall not accept any money.*
If instead the monitoring has been enabled, and there are not enough coins in the hopper, the display will warn that the hopper is empty. There will usually remain 20 coins approximately, so as to complete the change payout.

PLEASE PAY ATTENTION: if the machine must be re-configured from Tokens (or Tokens + returned change) dispenser to Coin changer, always do reset to DEFAULT CONFIGURATION and RESET ACCOUNTS. Else, the bonus setting could produce Accounts inconsistency.

7.2.5.D SET UP CASHLESS (only if the ACS reader is built-in)

If the unit is equipped with the ACS reader, it is possible to get access to useful functions:

Operation	Master Card/Key (black) for the Owner	Service Card/Key (white) for the Manager
1. *Initialize RFID Card/Keys*	YES	YES (no Master Card/Key)
2. *Enable white key to collect money*	YES (from Menu)	NO
3. *Check Accounts (totals and partials)*	YES	YES (partials only)
4. *Print Accounts*	YES	NO
5. *Reset Accounts Data*	YES	YES (partials only)
6. *Reset of paid residual credit*	YES	YES
7. *Access to (optional) manual Refill*	YES	YES

Once created, the Master Card/Key allows to initialize User Cards/Keys on the ACS reader.

Whenever the Master Card/Key or the Service Card/Key gets access to the Accounts menu, the shown data get automatically downloaded in the Card/Key. Each Card/Key can contain up to 10 downloaded sets. These data sets can be read and filed to PC via the ACR Programming Station (K-P4N-000007) and sw. The ACR Programming Station can be used also to load credits on User Cards/Keys.

Credits can be loaded on the User keys by the Key Loader One (TB-L6A2) device as well.

Before initializing the ACS RFID reader and the Cards/Keys, the owner of the Owner/Master key (black colour key) must:

i. establish an initialization code (PIN) with 6 alphanumeric characters, write it down and keep it in a safe place, to re-use it (if necessary) later;

ii. ***create and enter the machine's 4-digit PIN code (see section 9.3.13 Change PIN Code), write it down and keep it in a safe place***.

All the Cards / Keys initialized on the devices that share the same PIN as the machine's PIN will be matched automatically to this machine. Therefore, they can be used only and on all such devices sharing the same PIN, while the Cards / Keys associated to other PINs will not be recognized as compatible. Depending on whether the PIN remains the default one (0000), or whether it is set with a different combination (e.g. 1234), there will be two operation modes:

i. Machine PIN = 0000 > all Cards / Keys will have access to the services offered by the machine.

ii. Machine PIN = (e.g.) 1234 > only the Cards / Keys programmed by the Owner with code 1234 will have access to the services offered by the machine(s) with code 1234.

Even when Cards / Keys are initialized with the ACR Programming Station (K-P4N-000007), the PIN of the machine on which these Cards / Keys must be used must be memorized in each of them.

7.2.5.D.a Initializing the ACS RFID Reader (Antenna) and the Master/Owner and Service/Manager Cards/Keys

When accessing this submenu for the first time, the display prompts the Operator to initialize the Cashless ACS reader: confirm by the "OK" key. The display will request to enter the 6-digit password PIN. Select the first digit using the "+" and "-", and confirm it with "OK". Repeat the operation for each of the next 5 digits.

The display will now ask to confirm the entered 6-digit code; insert it again: the initialization of the ACS Cashless reader will then be started. At the end, the display will confirm that the ACS reader is ready, and will return to the configuration menu.

It is possible now to initialize the Master/Owner card/key, necessary to create User card/keys. Please notice the following:

Master and Manager Cards can only be created using Chip Cards CH-2N01.
User Cards can only be created from Standard Cards CH-2N02 or CH-2N03.
Any type of Keys can only be created using Alberici branded keys: CH-1C11 - CH-1C16.

Insert the Master Card/Key in the initialized ACS RFID Reader: the machine 4-digit pin code (see section 9.3.13) will be requested; enter it to get the Master Card/Key initialized.
Do not remove the Card/Key during the initialization process, until the confirmation that the Card / Key has been initialized gets displayed.
Now the initialized Card/Key can be drawn out.

By the same process, the Service/Manager Card/Key can be initialized.

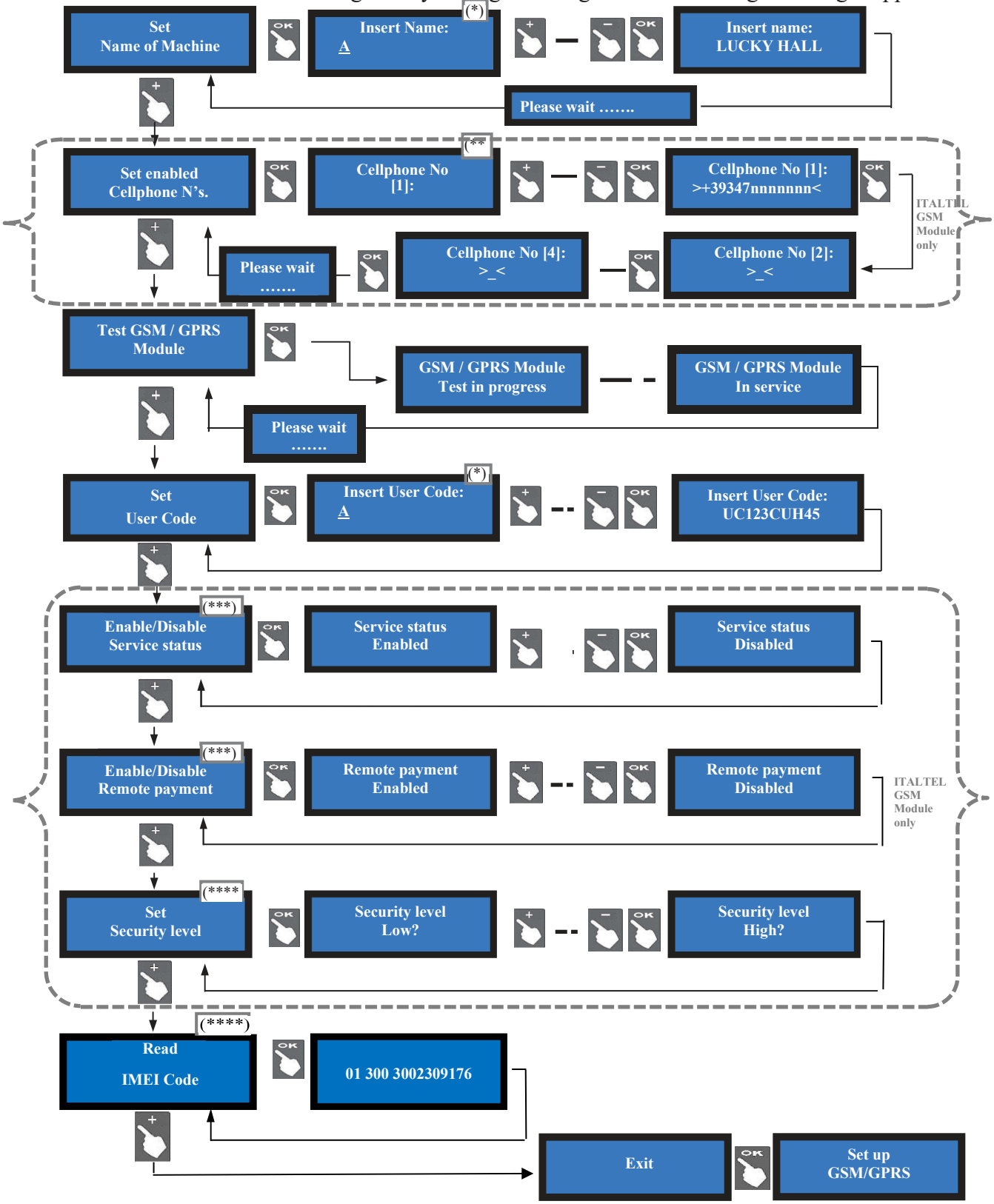
User Cards/Keys must be initialized by a different process:

i. quit the Set-up Menu;
ii. insert the Master Card/Key in the ACS Reader: the SEL and the OK pushbuttons will light up in green colour, and the display will show "ACCOUNTS";
iii. touch the green lit SEL button, to display "INITIALIZE KEYS", then
iv. press the green lit OK pushbutton: the display will show "KEY INITIALIZED!".
v. Remove the Master/Owner Card/Key;
vi. insert the Card/Key that must be initialized as User Key, then
vii. wait until the display shows "KEY INITIALIZED!":

To load credit on the User Cards/Keys, see section 6.4.2.

7.2.5.E SET UP GSM/GPRS

When the GSM/GPRS kit is installed, it gets detected during self-configuration, and its parameters must be set up for operation. SMS functions will not be working on Hermes GPS/GSM module; remote control will then be managed only through the Argo Portal or through the Argo App.

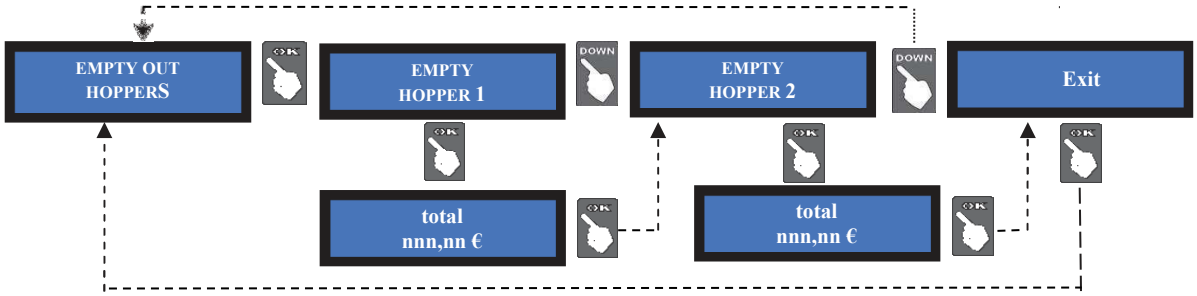


(*) By the + and the - buttons, locate the letter/digit, and press the OK button to confirm your choice; the cursor will automatically move to the next character. There are 16 characters in the machine name, and 1 in the User Code. After the last character has been confirmed, the name or the /code you have typed gets automatically saved. In case you have purchased your subscription(s) when buying the machine (or the Hermes GSM module), no need to enter the User Code; it will be already present in the menu.

(**) This function is available only in old GSM modules. By buttons + and - , locate the number you want to write, and press OK to confirm it; the cursor will automatically move to the next character. Once confirming the last digit, also confirm the whole number entered: it is proposed to enter the second number, and finally the third.
(***) When the Service Status function is enabled, the machine can be put out of service by the relevant button in the ARGO Portal dashboard. Service can be restored by left-clicking on the same button.
*(****) When the Remote Payment function is active, and the Security Level has been set to **Low**, it is possible to command the machine to dispense an amount (in €) or a number of tokens (pieces) by the relevant command button in the ARGO Portal dashboard. When the Remote Payment function is active, and the Security Level has been set to **High**, it is still possible to command the machine to dispense an amount (in €) or a number of tokens (pieces) by the relevant command button in the ARGO Portal dashboard. However in this case, the display will prompt the Operator to enter the password: the Operator must then put his Refill key in the Refill lock (or his RFID key in its Reader),and enter the password by the buttons SEL (select each number) and OK (confirm each number).*

7.2.6 EMPTY OUT THE HOPPERS

Use this function to make the selected hopper pay out all the contained coins / tokens. Once emptied the first hopper, total dispensed amount shall be displayed. Press OK to go on with second hopper.



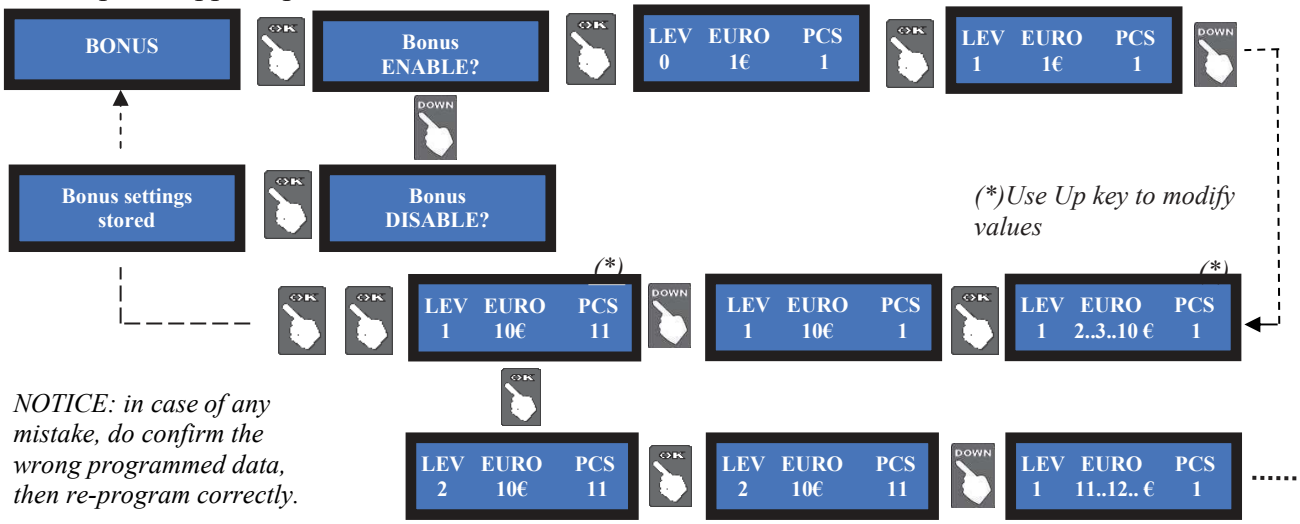
7.2.7 RESTORE DEFAULT CONFIGURATION

To use this sub-menu it is necessary to digit the PIN code.

WARNING: in case of reset, the system sets back to default configuration. The PIN code will be reset to the default 0000 setting. Account records shall not be cancelled.

7.2.8 BONUS SET UP (available only in Manual Mode, for purchase by Cash only)

This function will operate only if at least the hopper no. 1 is preset for paying tokens. Take care to set up all hoppers' parameters.



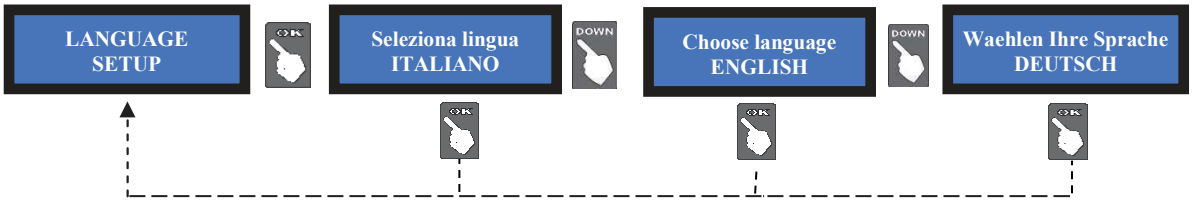
NOTICE: in case of any mistake, do confirm the wrong programmed data, then re-program correctly.

This sub-menu is not available when the Pay-out Table is enabled: however, it is possible to set the total number of tokens to be dispensed by entering it directly in the Table. Therefore, to disburse Bonus in Manual Mode, set this menu for purchase by Cash, and the "Payment Table"(sect. 7.2.5.B.i) for purchase by POS. to deliver Bonus, the POS follows only the Pay-out Table setting.

If credit accumulation (to reach bonus level) is necessary, please set the Dispensing Mode to MANUAL.

7.2.9 LANGUAGE SETUP

English, French, German, Italian and Dutch are available as default.



When in stand-by, by pressing the "flags" button, the User can choose in which language the messages will be displayed (courtesy languages). The default language gets restored after one minute of machine inactivity. Using the Babbel Software, it is possible to load message texts translated into the local language, as well as to set the local currency, into the menu. The language thus entered shall therefore appear among those selectable by default and among those of courtesy. In this regard, check the Babbel Software Manual available on the www.alberici.net website.

7.2.10 PROMO

It is possible to preset an advertisement on the display. Press OK:

Press again OK, the pointer will highlight the first digit: by UP or DOWN, choose the character that you want to insert, then confirm by OK. The pointer will highlight the following digit.
Once digit no. 16 has been confirmed, the message gets stored.

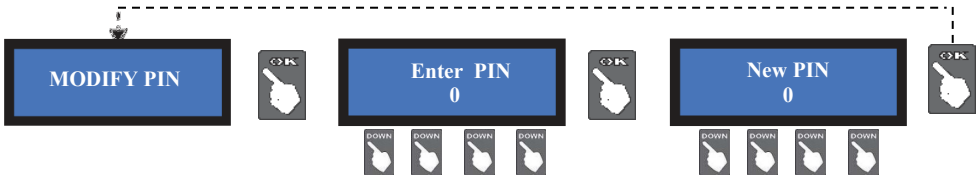
7.2.11 MODIFY PIN

The PIN code allows to get access to the discretional menus of the system.
The PIN code is made up by 4 figures (each of them from 0 to 9: 10,000 combinations available).

ATTENTION: the default PIN code is 0000

The settings in the following menus can be modified by using the PIN code:
MODIFY PIN - RESET ACCOUNTS - RESTORE DEFAULT CONFIGURATION

To modify the existing PIN, press OK, and digit the old PIN code: to digit each code figure, first use keys UP and DOWN to set each figure, then confirm it by OK. Once the 4th figure has been confirmed, confirm by OK the whole old PIN:

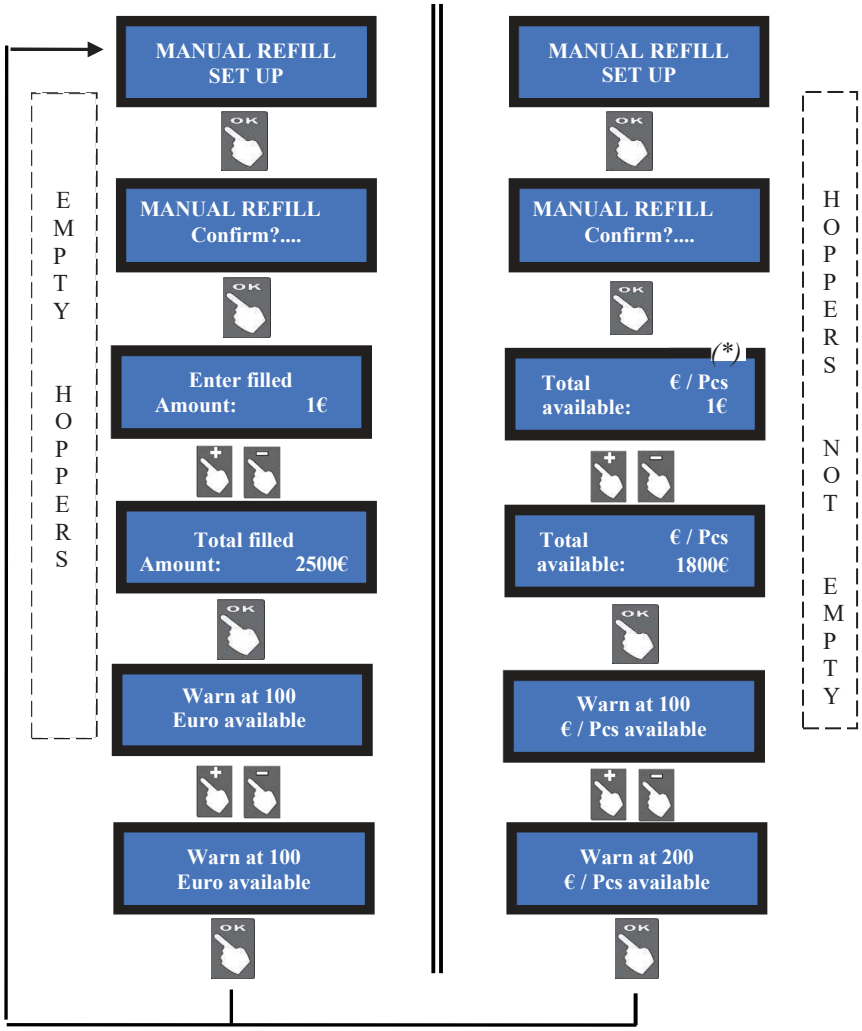


To enter the new PIN code, use first the UP and DOWN keys to set each figure, then confirm it by OK. Once the 4th figure has been confirmed, confirm by OK the whole new PIN.
As every single figure gets confirmed, an asterisk takes its place, so preserving secrecy.
NOTICE: when DEFAULT CONFIGURATION is restored, the PIN code gets reset to 0000.

If the entered PIN is not correct, the User is given another 4 tries before the board gets blocked-up by its security interlock. Before the 5th error, the system can be started again by switching it off and on again. After the 5th error, the machine will be blocked, while the display will show two codes. Please send such codes to Alberici Assistance, to get the reset information.

7.2.12 MANUAL REFILL SET UP

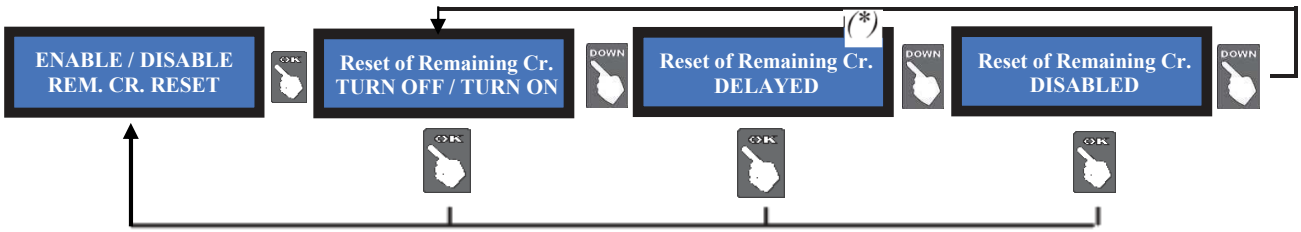
Carrying out the Manual Refill allows the Accounts records to keep track of the actual amounts available in the dispensers. It allows as well to warn when such amount becomes less than the reserve threshold level; in such event, the OK button starts flashing yellow until the hopper gets refilled. Refill can be made when the unit is empty or still containing more than the preset reserve amount.



(*) Shows "€" when set for coins
Shows "Pieces" when set for tokens

7.2.13 ENABLE / DISABLE REMAINING CREDIT

Amount of remaining (i.e. unpaid) credit can be reset when machine is switched off. Such amount gets automatically recorded in the Accounts (section 7.3.4).



(*) When enabling this option, the remaining credit shall be cancelled within 15 seconds from end of transaction.

7.3.14 EXIT MENU

Press OK to go back to stand-by condition:

8 Messages

Display contrast

Should the contrast between the characters and the background be not convenient, adjust it as follows:

a. disconnect the cable from socket POWER IN/CCT of the pcb, and power up the machine;
b. hold down the "+" and "-" buttons of the pcb at the same time, and plug the cable into socket POWER IN/CCT; when the display starts flashing, release both buttons;
c. a prompt (in Italian language) will propose you to set the desired contrast level;
d. press the "+" button to increase the intensity of contrast/brightness. Intensity can be adjusted between -15 and + 15. Standard values range between -1 and +5
e. once the desired degree of illumination has been reached, press the "ok" button;
f. power off the machine, then power it on again.

8.1 Messages from the display

8.1.1 *Faulty operation:*

The warning shown here:

is accompanied by the system check. For instance, the following sliding warnings:

stand for:

the coin acceptor is not connected, the note validator is faulty, hopper 1 is empty, ...

The following error messages can possibly appear:

the mentioned peripheral unit (coin acceptor, or note validator, or Hopper, and so on is connected and functioning

the mentioned peripheral unit has been disconnected

the mentioned peripheral unit is connected but faulty

the Hopper is empty

the inserted note is not enabled

The message

means that coins have run out during the payout. Switch power off, fill the hoppers up, and switch power on again: the board will prompt the hopper to complete the payout.

8.1.2 Codice RI (RI Code) - (Control Board is blocked)

When this message appears, keep the 3 buttons behind the display pressed for 5 seconds.
The 'Code RI' message means that there has been an event that disabled the EPROM. If and when it pops up, hold down the 3 OK, UP e DOWN keys at the same time for 5 seconds.
Such operation will reset the machine to its default configuration. It will then be necessary to re-program the setup according to the needs.
In case that the 'Code RI' message pops up again after releasing the 3 keys, it means that the EPROM has been damaged: it will be necessary to replace the control board.

8.2 Messages from the Note validator

8.2.1 BillyOne / OryOne Validator

During operation, the amount of consecutive red flashes produced by the entry slot indicates the possible malfunctions (see chart below):

no of red flashes	Description
1	Validator is open
2	Jammed banknote
3	Fraud attempt detected
5	Adjust optic sensors
7	Stacker full (OryOne Only)
9	Low power supply
11	Check operation of the encoder + efficiency of the validator motor
12	Check operation of the encoder + efficiency of the stacker motor (OryOne)
14	ROM error

8.2.2 Inlet bezel flashing blue or illuminated in solid yellow

Two repeating blue blinking: the stacker has been removed, or its detection sensor is faulty.
Regular blue blinking: dip-switch 1 is to OFF position (Pulse mode).
Solid yellow: ccTalk communication error. Check voltage level (12 or 24Vdc). Power off and on. The *vv. 2.17+ of the CMS pcb* restore communication when the voltage goes back to normal.

8.2.3 Fraud-fishing protection

The banknote reader is equipped with a security device that gets activated in the event of fishing fraud attempts repeated over a period of time.
This device can be set through the dip-switch SW8 (DS-row on the Validator side) to operate in a "soft" mode (* DS8 = ON) or in "extended" mode (** DS8 = OFF).
* DS8 = ON: if set on “soft” anti-fraud mode, the banknote is returned at each attempt of fraud, without any light signaling, as if it was an unknown denomination.
** DS8 = OFF: if set to “extended” anti-fraud mode, the validator returns the banknote without reporting the fraud, and remains in operation. On the 3rd attempt, the reader sets automatically to warning mode and the inlet bezel flashes three times red. Power the device off and on again. The same happens on the 4th fraud attempt. On the 5th fraud attempt, the reader goes into error mode, and emits successive sequences of three yellow flashes.
Please wait for automatic recovery, without turning off the unit.

(*) Dip-Switch SW8 ON
Any attempt at “fishing” will cause the note to be rejected, without showing any signal.

(**) Dip-Switch SW8 OFF		
Attempt	**Validator reaction**	**Do as described below**
1st	Remains in service	-
2nd	Remains in service	-
3rd	> error (3 red flashes)	Reset (switch off then on)
4th	> error (3 red flashes)	Reset (switch off then on)
After the 5th fraud attempt (3 yellow flashes), it is necessary to wait for automatic restore of service. Take care not to switch the device off.		

NOTICE: no error status will be transmitted to the machine, so that the latter does not go out of service, and will therefore continue to maintain the other functions working.

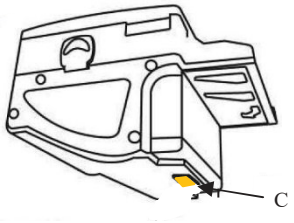
9 Cleaning the Note Validator

WARNING! Do switch power off before opening the machine!

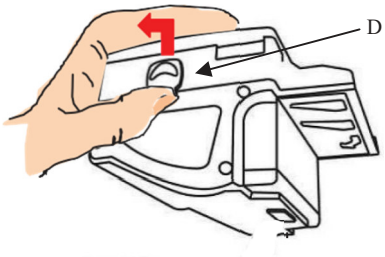
9.1 Manual cleaning

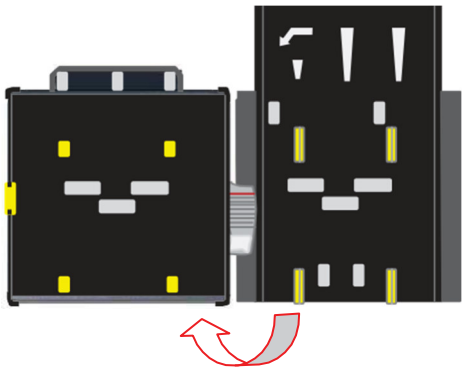
The ability of acceptance may decrease due to the accumulation of dust and cellulose dust released by banknotes during transit, or because of residues or sprays, which may spread on the detecting sensors and on transmission parts.
It is therefore recommended to **clean these parts at least monthly**, as indicated below.

1. Turn power off and unplug the cable from the 10-pin connector interface. Press the yellow button C, located under the reader, to release the main body from the faceplate, and slide it backwards.

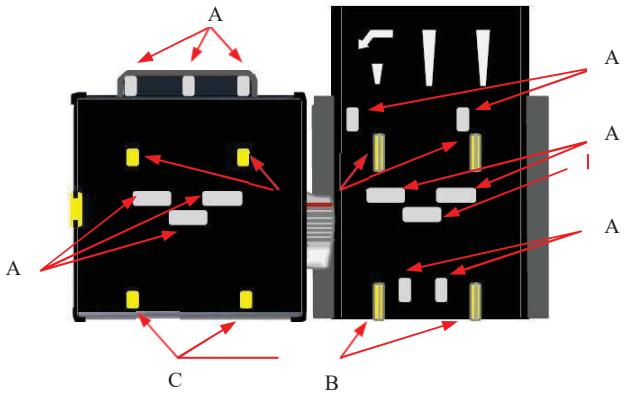


2. Move the D button upward, hold it while sliding the cover backwards; then lift the latter up and rotate it 180° to the right side.





3. Gently wipe the sensors with a clean, lint-free tissue, or with a cotton swab, or with a small sponge, possibly moistened with isopropyl alcohol.
4. Completely remove the dust and residues from the 4 silicone rollers, and from the 4 elastic matching wheels which are located in the lower surface of the upper lid. To remove the most stubborn dirt from rollers and wheels, use *isopropyl alcohol.*



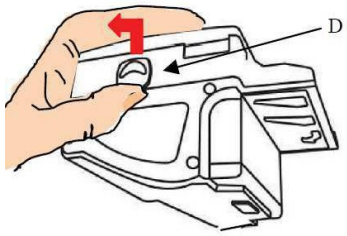
PAY ATTENTION: *do not use organic detergents (ex. alcohol, thinners or petrol). Use only isopropyl alcohol.*

1. Sensors
2. Rollers
3. Elastic matching wheels

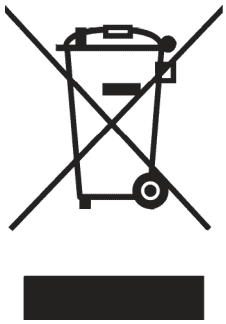
9.2 Clearing jammed banknotes

CAUTION! Turn off power before opening its upper lid.

Open the top cover by pressing D, and pull out the stuck banknote (as well as any other objects that will hinder the transit).



10. Disposal of the product



WARNING! DISPOSE OF ACCORDING TO THE GOVERNING LAW IN YOUR COUNTRY!

This equipment may not be treated as household waste. Instead, it must be handed over to the applicable collection point for the recycling of electric and electronic equipment. By ensuring that this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about recycling of this product, please contact the Dealer where you purchased this product.

11. Terms of Guarantee

The manufacturer will fix malfunctions arising from production faults in this machine or parts of it within 12 months from the date of sale.

All communications referring to guarantee repairs or replacements must be accompanied by the product serial number and the copy of the sale invoice.
To obtain your guarantee repair, please send the part to the Dealer where you purchased the machine, together with the following documents:
- copy of the sale invoice
- delivery note stating “returned for guarantee repair”
- detailed report of the problem found and the circumstances in which it occurs.

Before sending the product, please get in touch with your Dealer or with Alberici S.p.a. (+39 051 944300); very malfunctions can be fixed via a simple phone call, saving you costs and time.

Alberici S.p.a. will verify that warranty is applicable, i.e. that problem is not caused by:
- transport damages
- damages from incorrect installation or wrong configuration
- installation in premises or areas not complying with the prescribed safety requirements
- intentional or unwilled tampering
- wrong or careless use or maintenance
- non-compliance with precautions prescribed (see Chapter 4. Caution)
- natural disasters, vandalisms, intentional or unintentional damage

Guarantee is considered automatically expired if outer and inner labels are missing.

Transport costs of repaired products are at the Customer’s charge.

12. Customer Service

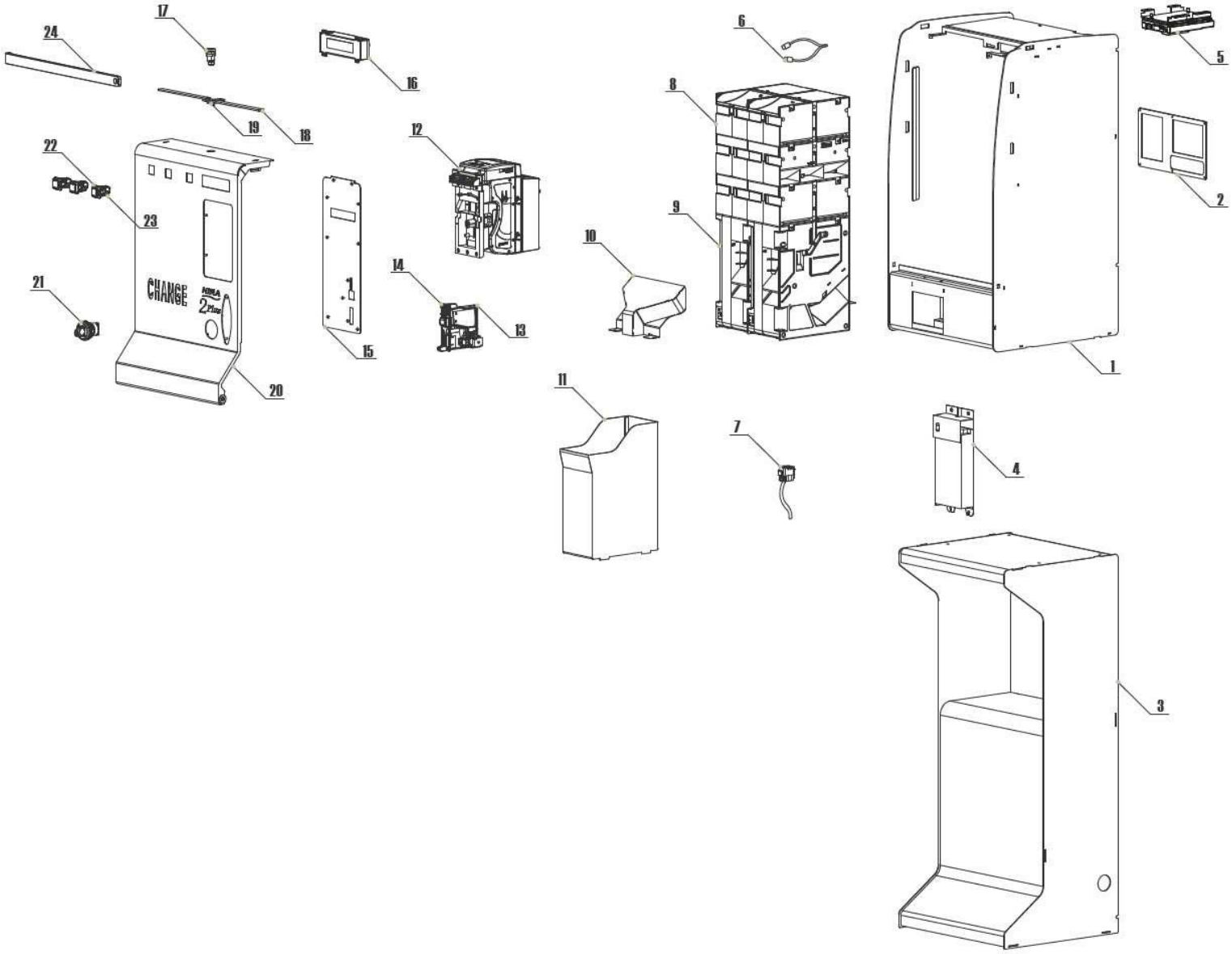
Alberici S.p.a. will be pleased to offer all the necessary information on use, ordinary maintenance and technical service. Please call (+39) 051 944300 and specify if your request concerns information on use or technical support.

ATTACHMENT: Spare parts List

HIRA 2 Maxi

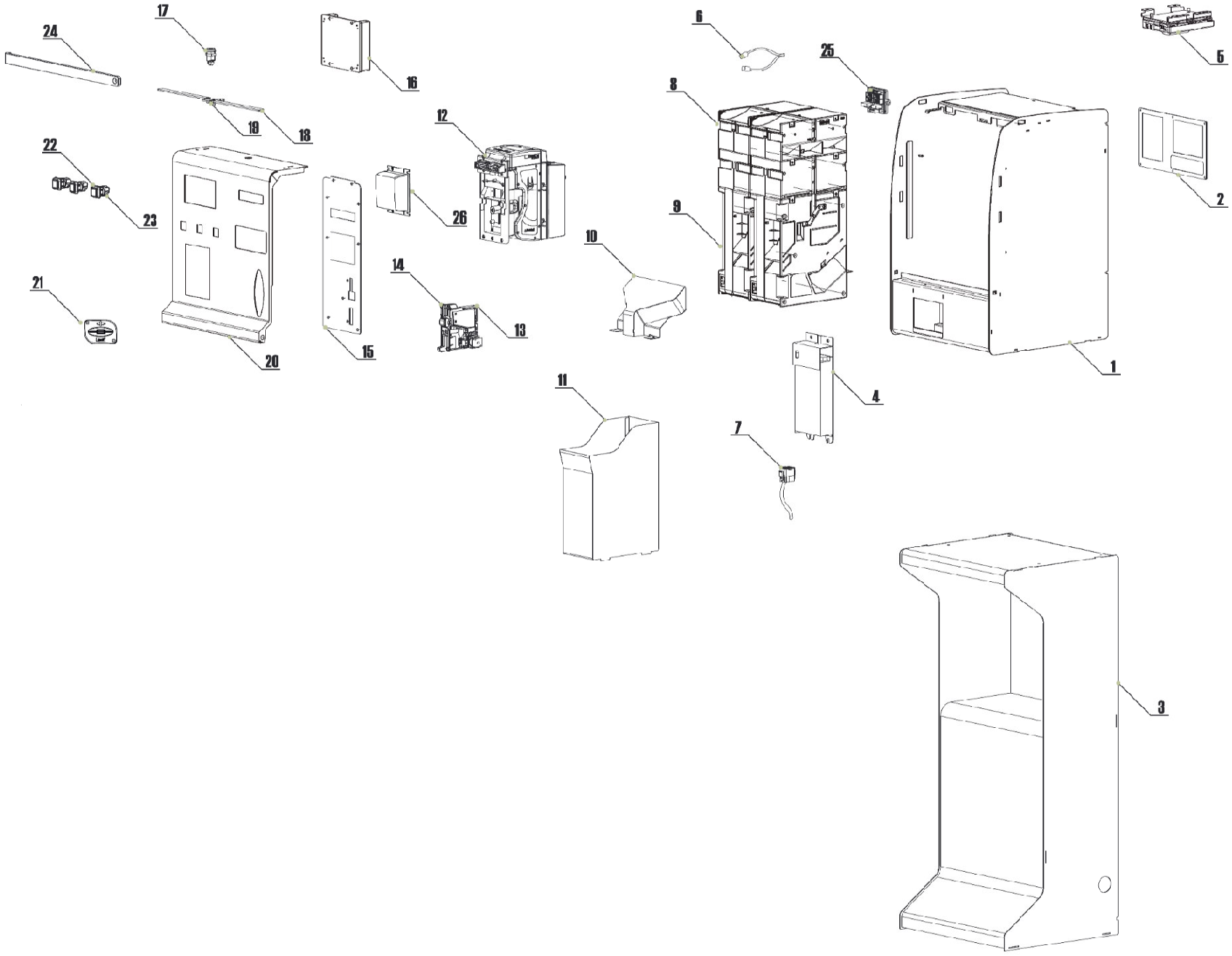
REF.	OPT.	COD.	DESCRIZIONE	DESCRIPTION
1		HRS-001A-V06	Mobile (senza periferiche)	Unit core (w/o Per. units)
2		P-AM0702-10T	Portatarga P3	P3 Paper holder
3		AA-0163	Piedistallo	Free-standing support
4	4a	A-CM0050	Assemblaggio alimentatore	RD-125 Power unit with bracket
	4b	AE-0806	Alimentatore RD-125	RD-125 Power box
5	5a	AA-0175	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Pinna	GPRS-GSM-GPS / Wi-Fi Module Kit - Pin Aerial model
	5b	AA-0172	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Disco	GPRS-GSM-GPS / Wi-Fi Module Kit - Disk Aerial model
	5c	AA-0173	Modulo Hermes GPRS-GSM modello a Pinna	GPRS-GSM Hermes Module Kit - Pin Aerial model
	5d	AA-0170	Modulo Hermes GPRS-GSM modello a Disco	GPRS-GSM Hermes Module Kit - Disk Aerial model
	5e	AA-0174	Modulo Hermes Wi-Fi modello a Pinna	Wi-Fi Hermes Module Kit - Pin Aeriel model
	5f	AA-0171	Modulo Hermes Wi-Fi modello a Disco	Wi-Fi Hermes Module Kit - Disk Aerial model
6		S-030212-000	Cablaggio estensione per Sens. Ott. Liv. Max	Full leve cable for capacity extensicn
7		S-030183-010	Cablaggio generale Hira 2 Maxi	Hira 2 Maxi wire harness
8		AA-0315	Sector 300 1B/2C prolunga per Hopper	Sector 300 1B/2C capacity extension
9	9a	K-02C-020003	HopperOne S11 ccTalk con schedino 10p	HopperOne S11 ccTalk + 10p adaptor
	9b	K-02C-040016	Hopper AH4 Discriminator II ccTalk con schedino 10p	Hopper AH4 Discriminator II ccTalk + 10p adaptor
10		HRS-002A-Z00	Canalizzatore monete	Coin tunnel
11		HRS-011A-Z00	Cassetta moneta metallica	Metal coin box
12	12a	LB-LU01	Lettore banconote BillyOne UN1	BillyOne UN1 note validator
	12b	LB-MUC2	Lettore banconote OryOne UN1	OryOne UN1 note validator
13		GE-66SU	Gettoniera elettronica AL66 S ccTalk mod.	AL66 S mod. ccTalk coin acceptor
14		IM-N000-0L10	Introduzione moneta PP	PP inner bracket for coin acceptor
15	15a	HRS-060A-I00	Piastra supporto POS + OryOne UN1	POS + OryOne UN1 support plate
	15b	HRS-061A-I00	Piastra supporto POS + BillyOne UN1 + gettoniera	POS + BillyOne UN1 + coin acceptor support plate
	15c	HRD-AC04-I00	Piastra supporto POS + lettore ACS di tessere e chiavi	POS + ACS card and key RW module support plate
	15d	HRX-AC01-I00	Piastra supporto OryOne UN1 + gettoniera	OryOne UN1 + coin acceptor support plate
	15e	HRX-AC02-I00	Piastra supporto BillyOne UN1 + gettoniera	BillyOne UN1 + coin acceptor support plate
	15f	HRS-064A-I00	Piastra supporto BillyOne UN1	BillyOne UN1 support plate
	15g	HRS-065A-I00	Piastra supporto OryOne UN1 + gettoniera + ACS	OryOne UN1 + coin acceptor + ACS support plate
16		SH-1D41-0010	Scheda Change CMG (display grafico blu 5")	CMG electronic control board (5" blue graphic display)
17		AM-1509	Serratura sicurezza Flat Key sportello	Safety lock Flat Key
18		HRS-009A-Z00	Asta per chiusura	Locking bar
19		HRS-008A-Z00	Fulcro per serratura	Lock pin
20		HRX-SP01-B06	Sportello Hira 2 Maxi	Hira 2 Maxi door
21		CH-CC01	Lettore ACS di tessere e chiavi	ACS card and key RW module
22		PL-MK21-ET60	Puls. lum. miniatura Halo 21 (senza portamicro)	Illuminated push-button Halo miniature 21 (no light core)
23		PM-M186	Portamicro elettronico L.E.D. RGB	RGB L.E.D. Mini electronic socket
24		HRP-005A-V06	Barra di chiusura	Anti-intrusion steel bar
25		C-140102	Terminale POS	POS terminal

ESPLOSO EXPLODED DRAWING



REF.	OPT.	COD.	DESCRIZIONE	DESCRIPTION
1		HRM-MB1A-V06	Mobile (senza periferiche)	Unit core (w/o Per. units)
2		P-AM0702-10T	Portatarga P3	P3 Paper holder
3	3a	AA-0148-0600	Piedistallo Hira 2 Mini CM (H 951mm)	Hira 2 Mini CM (H 951mm) free-standing support
	3b	AA-0164-0600	Piedistallo Hira 2 Maxi CM (H 770mm)	Hira 2 Maxi CM (H 770mm) free-standing support
4	4a	A-CM0056	Assemblaggio alimentatore con cablaggio Hira 2 (include AE-0806)	RD-125 Power unit with bracket and harness (includes AE-0806)
	4b	AE-0806	Alimentatore RD-125	RD-125 Power box
5	5a	AA-0175	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Pinna	GPRS-GSM-GPS / Wi-Fi Hermes Module Kit - Pin Aerial model
	5b	AA-0172	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Disco	GPRS-GSM-GPS / Wi-Fi Hermes Module Kit - Disk Aerial model
	5c	AA-0173	Modulo Hermes GPRS-GSM modello a Pinna	GPRS-GSM Hermes Module Kit - Pin Aerial model
	5d	AA-0170	Modulo Hermes GPRS-GSM modello a Disco	GPRS-GSM Hermes Module Kit - Disk Aerial model
	5e	AA-0174	Modulo Hermes Wi-Fi modello a Pinna	Wi-Fi Hermes Module Kit - Pin Aerial model
	5f	AA-0171	Modulo Hermes Wi-Fi modello a Disco	Wi-Fi Hermes Module Kit - Disk Aerial model
6		S-030212-000	Cablaggio estensione per Sens. Ott. Liv. Max	Full level cable for capacity extension
7		S-03012M-00	Cablaggio generale Hira 2 Midi CM	Hira 2 Midi CM wire harness
8		AA-0311	Sector 200 1B/2C prolunga per Hopper	Sector 200 1B/2C capacity extension
9	9a	K-02C-020003	HopperOne S11 ccTalk con schecino 10p	HopperOne S11 ccTalk + 10p adaptor
	9b	K-02C-040016	Hopper AH4 Discriminator II ccTalk con schedino 10p	Hopper AH4 Discriminator II ccTalk + 10p adaptor
10		HRM-CM2A-Z00	Canalizzatore monete	Coin funnel
11		HRM-CM11-Z00	Cassetta moneta metallica	Metal coin box
12	12a	LB-LU01	Lettore banconote BillyOne UN1	BillyOne UN1 note validator
	12b	LB-MU02	Lettore banconote OryOne UN1	OryOne UN1 note validator
13		GE-66SU	Gettoniera elettronica AL66 S ccTalk mod.	AL66 S mod. ccTalk coin acceptor
14		IM-N000-0L10	Introcuzione moneta PP	PP inner bracket for coin acceptor
15	15a	HRD-AC01-100	Piastra inox Hira 2 Midi OryOne UN1+gettoniera	OryOne UN1+coin acceptor inox support plate
	15b	HRM-AS11-100	Piastra inox Hira 2 Midi BillyOne UN1+gettoniera+ACS	BillyOne UN1+coin acceptor+ACS inox support plate
	15c	HRM-AS12-100	Piastra inox Hira 2 Midi OryOne UN1+gettoniera+ACS	OryOne UN1+coin acceptor+ACS inox support plate
	15d	HRD-AC02-100	Piastra inox Hira 2 Midi BillyOne UN1+gettoniera	BillyOne UN1+coin acceptor inox support plate
	15e	HRD-AC04-100	Piastra supporto POS + lettore ACS di tessere e chiavi	POS + ACS card and key RW module support plate
16	16a	SH-1D41-0010	Scheda Change CMG (display grafico blu 5")	CMG electronic control board (5" blue graphic display)
	16b	SH-1A21	Scheda elettronica CMS (display blu 2x16)	CMS electronic control board (2x16 blue display)
	16c	HRM-AS14-I00	Adattatore display CMS	CMS display adapter
17		AM-1509	Serratura sicurezza Flat Key sportello	Safety lock Flat Key
18		HRS-009A-Z00	Asta per chiusura	Locking bar
19		HRS-008A-Z00	Fulcro per serratura	Lock pin

REF.	OPT.	COD.	DESCRIZIONE	DESCRIPTION
20		HRD-SP01-V06	Sportello Hira 2 Midi	Hira 2 Midi door
21		CH-CC01	Lettore ACS di tessere e chiavi	ACS card and key RW module
22		PL-MK21-ET60	Puls. lum. miniatura Halo 21 (senza portamicro)	Illuminated push-button Halo miniature 21 (w/o socket)
23		PM-M186	Portamicro elettronico L.E.D. RGB	RGB L.E.D. Mini electronic socket
24		HRP-005A-V06	Barra di chiusura	Anti-intrusion steel bar
25		AA-0177	Concentratore P4	Harness hub P4
26		C-140102	Terminale POS	POS terminal



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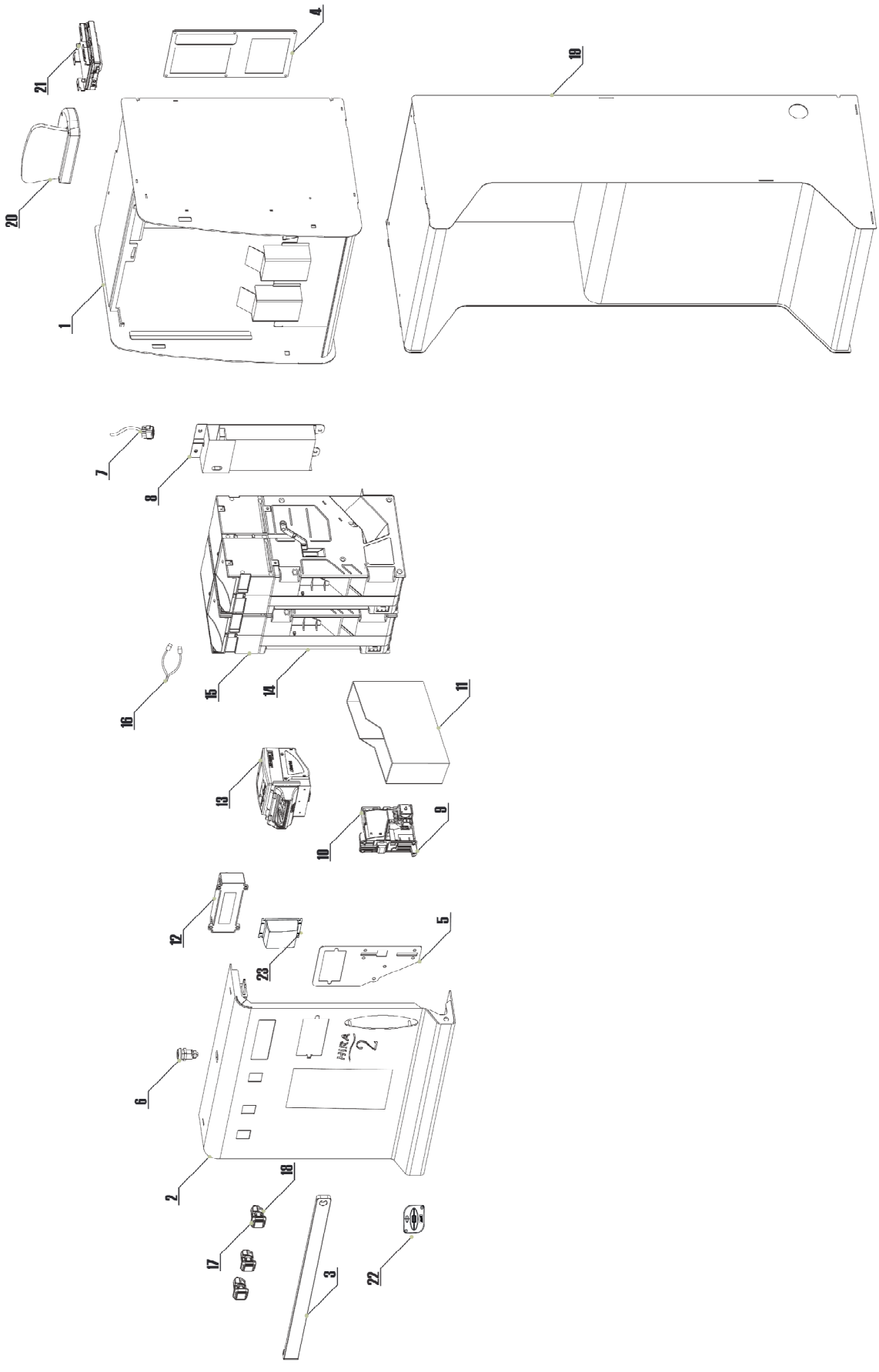
REF.	OPT.	COD.	DESCRIZIONE	DESCRIPTION
1		HR2-MB01-V06	Assemblato mobile (senza periferiche)	Unit core assembly (w/o Per. units)
2		HR2-SP01-V06	Sportello Hira 2 Mini	Hira 2 Mini door
3		HR2-005A-V06	Barra di chiusura	Anti-intrusion steel bar
4		P-AM0702-10T	Portatarga P3	P3 Paper holder
5	5a	HR1-019A-I00	Piastra chiusura foro gettoniera elettronica	Cut-out closure plate
	5b	HR1-020A-I00	Piastra supporto gettoniera elettronica	Coin acceptor support plate
6		AM-1509	Serratura sicurezza Flat Key sportello	Safety lock (Flat Key)
7		S-030180-020	Cablaggio generale Hira 2 Mini	Hira 2 Mini wire harness
8	8a	A-CM0249	Assemblato alimentatore con cavo (include alimentatore)	RD-125 Power box with bracket
	8b	AE-0806	Alimentatore RD-125	RD-125 Power box
9		IM-N000-0L10	Introduzione moneta PP	PP inner bracket for coin acceptor
10		GE-66SU	Gettoniera elettronica AL66 S ccTalk mod.	AL66 S mod. ccTalk coin acceptor
11	11a	HR1-CS01-Z00	Cassetta moneta Hira per gettoniera	Metal coin box
	11b	AM-1305	Cassetta monete tipo "A"	Coin box "A"
12		SH-1A21	Scheda Change CMS (display 2x16)	CMS control board (2x16 display)
13	13a	LB-LU01	Lettore banconote BillyOne UN1	BillyOne UN1 note validator
	13b	LB-MU02	Lettore banconote OryOne UN1	OryOne UN1 note validator
14	14a	K-02C-020003	HopperOne S11 ccTalk con schedino 10p	HopperOne S11 ccTalk + 10p adaptor
	14b	K-02C-040016	Hopper AH4 Discriminator II ccTalk con schedino 10p	Hopper AH4 Discriminator II ccTalk + 10p adaptor
15		AA-0309	Sector 100 1B/2C prolunga per Hopper	Sector 100 1B/2C capacity extension
16		S-030212-000	Cablaggio estensione per Sens. Ott. Liv. Max	Full level cable for capacity extension
17		PL-MK21-ET60	Puls. lum. miniatura Halo 21 (senza portamicro)	Illuminated push-button Halo miniature 21 (w/o socket)
18		PM-M186	Portamicro elettronico L.E.D. RGB 12V	RGB L.E.D. Mini electronic socket
19		AA-0148-0600	Piedistallo	Free-standing support
20		TL-46S1	Testata luminosa Keeper	Keeper illuminated topper
21	21a	AA-0175	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Pinna	GPRS-GSM-GPS / Wi-Fi Module Kit - Pin Aerial model
	21b	AA-0172	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Disco	GPRS-GSM-GPS / Wi-Fi Module Kit - Disk Aerial model
	21c	AA-0173	Modulo Hermes GPRS-GSM modello a Pinna	GPRS-GSM Hermes Module Kit - Pin Aerial model
	21d	AA-0170	Modulo Hermes GPRS-GSM modello a Disco	GPRS-GSM Hermes Module Kit - Disk Aerial model
	21e	AA-0174	Modulo Hermes Wi-Fi modello a Pinna	Wi-Fi Hermes Module Kit - Pin Aerial model
	21f	AA-0171	Modulo Hermes Wi-Fi modello a Disco	Wi-Fi Hermes Module Kit - Disk Aerial model
22		CH-CC01	Lettore ACS di tessere e chiavi	ACS RW module for keys and cards
23		C-140102	Terminale POS	POS Terminal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DICHIARAZIONE DI CONFORMITÀ

CE

DIRETTIVA 2014/35/UE - DIRETTIVA 2014/30/UE

La ditta **Alberici S.p.A.**, avente sede in via **Ca' Bianca, 421, 40024 Castel San Pietro Terme (BO) – Italia,**

D I C H I A R A

Che il sistema classificato nella famiglia di prodotto **apparecchio elettrico d'uso domestico e similare – Cambiamonete/banconote,** finito di costruire e collaudare il___/__/_____, identificato univocamente da:

Modello	Configurazione			N° di Serie e/o matricola
Hira 2 Midi CM	☐ **OryOne-S11**	☐ **OryOne-AH4**	☐ **display 5"**	– – – – – – – – – – – – – –
	☐ **BillyOne-S11**	☐ **BillyOne-AH4**	☐ **display 2x16**	

Essendo realizzato conformemente al modello campione denominato Hira 2 Midi CM avente matricola (numero di serie) 0000003, finito di testare positivamente ai fini EMC e LVD (rapporto 7415 CE - Hira2 Midi.doc) il 22/12/2017, dalla STP S.r.l., con sede legale in via P.F. Andrelini, 42, 47121 Forlì (FC), Italia e sede operativa in via San Donnino, 4, 40127 Bologna (BO), Italia, risulta essere conforme a quanto previsto dalle seguenti direttive comunitarie:

a) le norme armonizzate (per i punti applicabili):
- CEI EN 55014-1 (CEI 110-1);
- CEI EN 55014-2 (CEI 210-47);
- CEI EN 55022 (CEI 110-5);
- CEI EN 55024 (CEI 210-49);
- CEI EN 60065 (CEI 92-1);
- CEI EN 60335-1 (CEI 61-150);
- CEI EN 60335-2-82 (CEI 61-226);
- CEI EN 60950-1 (CEI 74-2);
- CEI EN 61000-3-2 (CEI 110-31);
- CEI EN 61000-3-3 (CEI 110-28);
- CEI EN 61000-4-2 (CEI 210-34);
- CEI EN 61000-4-3 (CEI 210-39);
- CEI EN 61000-4-4 (CEI 210-35);
- CEI EN 61000-4-5 (CEI 110-30);
- CEI EN 61000-4-11 (CEI 110-29);
- CEI EN 61000-6-1 (CEI 210-64);
- CEI EN 62233 (CEI 61-251).

b) In conformità ai requisiti essenziali di sicurezza della Direttiva Bassa Tensione:
- L. 791 del 18 Ottobre 1977 e s.m.
- 2014/35/UE del 26 Febbraio 2014;

c) in conformità ai requisiti essenziali di sicurezza della Direttiva Compatibilità Elettromagnetica:
- D.Lgs. 194 del 06 Novembre 2007.
- 2014/30/UE del 26 Febbraio 2014;

che conferiscono la presunzione di conformità alla Direttiva 2014/30/UE.

Castel San Pietro Terme (BO), Italia lì,____/___/___

Fabrizio Alberici

Il Presidente

Alberici S.P.A.
Progettazione e produzione sistemi di pagamento, accessori per videogames e vending machines
Via Ca' Bianca, 421, 40024 Castel San Pietro Terme (BO), Italia.
Telefono:+39-(0)51-944300. – Fax:+39-(0)51-944594 – P.Iva:00627531205
***E-mail:** info@alberici.net **– Url:** http://www.alberici.net*

DICHIARAZIONE DI CONFORMITÀ

CE

DIRETTIVA 2014/35/UE - DIRETTIVA 2014/30/UE

La ditta **Alberici S.p.A.**, avente sede in via **Ca' Bianca, 421, 40024 Castel San Pietro Terme (BO) – Italia,**

D I C H I A R A

Che il sistema classificato nella famiglia di prodotto **apparecchio elettrico d'uso domestico e similare – Cambiamonete/banconote,** finito di costruire e collaudare il ___/___/_____, identificato univocamente da:

Modello	Configurazione		Tipo	N° di Serie e/o matricola
Hira 2 CM	☐ **OryOne-S11**	☐ **OryOne-AH4**	☐ **Mini**	
	☐ **BillyOne-S11**	☐ **BillyOne-AH4**	☐ **Maxi**	- - - - - - - - - - - - - -

Essendo realizzato conformemente al modello campione denominato Hira 2 Plus CM avente matricola (numero di serie) 0000003, finito di testare positivamente ai fini EMC e LVD (rapporto 7037CE-Hira2+CM.doc) il 10/06/2015, dalla STP S.r.l., con sede legale in via P.F. Andrelini, 42, 47121 Forlì (FC), Italia e sede operativa in via San Donnino, 4, 40127 Bologna (BO), Italia, risulta essere conforme a quanto previsto dalle seguenti direttive comunitarie:

a) le norme armonizzate (per i punti applicabili):
- CEI EN 55014-1 (CEI 110-1);
- CEI EN 55014-2 (CEI 210-47);
- CEI EN 55022 (CEI 110-5);
- CEI EN 55024 (CEI 210-49);
- CEI EN 60065 (CEI 92-1);
- CEI EN 60335-1 (CEI 61-150);
- CEI EN 60335-2-82 (CEI 61-226);
- CEI EN 60950-1 (CEI 74-2);
- CEI EN 61000-3-2 (CEI 110-31);
- CEI EN 61000-3-3 (CEI 110-28);
- CEI EN 61000-4-2 (CEI 210-34);
- CEI EN 61000-4-3 (CEI 210-39);
- CEI EN 61000-4-4 (CEI 210-35);
- CEI EN 61000-4-5 (CEI 110-30);
- CEI EN 61000-4-11 (CEI 110-29);
- CEI EN 61000-6-1 (CEI 210-64);
- CEI EN 62233 (CEI 61-251).

b) In conformità ai requisiti essenziali di sicurezza della Direttiva Bassa Tensione:
- L. 791 del 18 Ottobre 1977 e s.m.
- 2014/35/UE del 26 Febbraio 2014;

c) in conformità ai requisiti essenziali di sicurezza della Direttiva Compatibilità Elettromagnetica:
- D.Lgs. 194 del 06 Novembre 2007.
- 2014/30/UE del 26 Febbraio 2014;

che conferiscono la presunzione di conformità alla Direttiva 2014/30/UE

Castel San Pietro Terme (BO), Italia lì, ___/___/_____

Fabrizio Alberici

Il Presidente

Alberici S.P.A.
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NOTICE

Alberici S.p.A. reserves the right to make changes to the equipment described and to its technical specifications at any time and without notice, in pursuit of the continual improvement of its products.

Progettazione e produzione di sistemi di pagamento, accessori per videogames e macchine vending
Design and manufacture of payment systems, accessories for videogames and vending machines

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